Agri intelligence

Maize 2025

www.agrii.co.uk

Agrii

Lunator Forage Rye established between Maize Crops
Drilled 15th Oct
Harvested 30th April

Contents

Welcome
to your 2025 edition of the Agrii Maize Guide

Within this extensive guide you should be able to find all you need to know for the 2025 maize season.

Whether it's the data required to choose a new variety for your system, material suitable for where you're farming within the UK, or practical advice and post-cropping options, this guide is here to help!

It's becoming more important than ever that maize crops grown in the UK are reliable, consistent, high performing and sustainable, due to the ever changing seasons and legislation that the industry faces on an annual basis.

With its nationwide coverage of agronomists and crop input specialists, Agrii is in an unrivalled position to offer the best possible advice and varieties required to meet the ever increasing demands of maize grown on UK soils.

For further information on how to get the very best from your maize crops, get in touch with your local Agrii contact on the back page.

Ben Lowe
National Forage Product Manager

Favourable & Less Favourable
regions of the UK

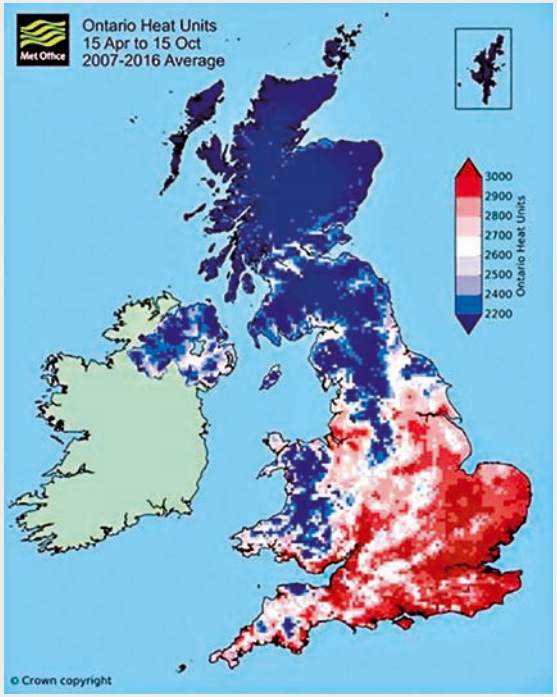
Throughout this Maize Guide, recommendations will be made using regional data designed to ensure the best performance is achieved from a variety grown within those areas of the UK.

In which region do you want to grow maize?

By using this colour coded heat map, you can clearly see the more favourable areas of the UK in red compared to the less favourable areas in the pale colours.

Maize is still a viable crop in the less favourable areas but variety choice is key and the use of degradable film may be needed in some instances.

Those areas in dark blue are generally not suitable for growing maize reliably.



Agrii:
Taking a nationwide approach to growing maize

Whether you're growing maize under degradable film in the North West, for AD feedstock in the East, as silage for livestock in the South West or even maize for grain in the South East – Agrii can supply the market leading technical advice and varieties you need!

Working closely with international breeders, Agrii is constantly at the leading edge of developments for the UK maize market.

Agrii's nationwide agronomy team, crop input specialists and animal health advisors also have access to the most up to date R&D information, herbicide and crop nutrition as well as other associated inputs such as silage additives and degradable film.

R&D is at the heart of Agrii and regional maize trials play a very large part in how we are able to advise on the best variety for you and your system.

Trial site tours can be organised on a one-to-one basis at any point of the growing season to identify the key benefits of varieties chosen specifically to be part of the Agrii Portfolio.

Not only are we able to demonstrate our market leading maize varieties, but also the technical support we can offer to growers which ranges from weed control and seed treatments to foliar nutrition and harvest dates.

Furthermore, the Agrii team are always on hand to discuss post-maize cropping options to maximise the output of your land all year round or indeed ensure valuable nutrients are retained and soil erosion is avoided over the winter months.

RHIZA

When it comes to soil sampling, the power of measurement is in effective management. Unlock your soil's potential with RHIZA:

+ P, K, Mg, pH analysis
+ Remain compliant with up-to-date soil data
+ Trace element analysis
+ Organic matter analysis for SFI
+ Analysis can be used to make more efficient product choices
+ Upload soil results to our online Contour platform – more information below

Base platform features:

+ Hyper-local farm weather data
+ Satellite imagery
+ Soil data
+ Yield mapping
+ Contour Mobile scouting app
+ Fertiliser requirement planning
+ Store data, cropping, observations and imagery

Contact the RHIZA team:

info@rhizadigital.co.uk
www.rhizadigital.co.uk
03300 949150

To find your local RHIZA Crop Input Specialist, visit the Agrii website:
www.agrii.co.uk/contact/

RHIZA LIME PLANNING TOOL

When planning to grow a maize crop, there are a number of factors to consider, such as variety choice, maturity date, use of starter fertilisers, addressing compaction issues and more. However, one important area which can often be overlooked, is soil pH. The preferred pH for maize is in the range of 6 - 7.2, as it has a poor tolerance for acidic soil, so getting the soil pH right should be the first priority.

In the early stages of maize development, phosphorous is an extremely important macronutrient, required particularly in the growing tips of the plant. A deficiency in the early stages of maize development, can limit nutrient uptake and root development. As phosphorus availability tails off quickly with increasing acidity, ensuring the soil pH is in the optimum range is crucial.

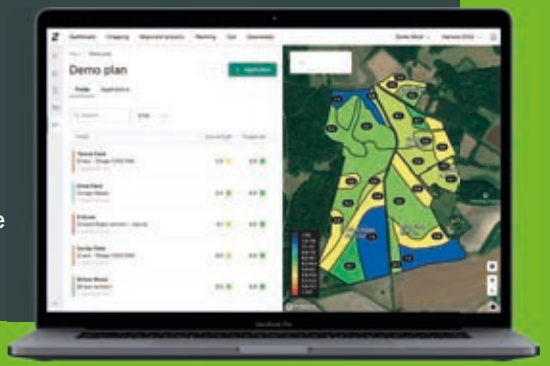
The liming tool utilises the easy-to-use workflows seen across other Contour planning modules, making it easy for new and existing customers to pick up and use themselves. Alternately there is a nationwide network of FACTs qualified advisors who are always willing to offer technical support when called upon.

Data from Lancrop Laboratories reveals that between 1994 and 2019, the average soil pH in the UK declined by 0.4 units, dropping from an optimal 6.7 to a suboptimal 6.3. This trend has likely worsened due to the unfavourable conditions of autumn and winter 2023, which hindered many planned lime applications aimed at correcting soil acidity.

Get ahead of the season and reach out to your local RHIZA contact to see how the new liming tool could help your farm prosper for harvest 2025.

The new liming tool within RHIZA's Contour software gives you the tools to identify and address any potential pH deficiencies. Using the platform, you will be able to:

+ Easily assess in-field differences in pH
+ Evaluate when soils were last tested to plan sampling regimes
+ Quickly create new and edit existing lime plans, both flat and variable rate.
+ Export job sheets and GPS files suitable for a wide range of machinery and contractors nationwide



Tramlines Podcast

Tramlines is the only farming podcast that delivers advice to growers on how to improve environmental performance and maximise farm profitability.

By tuning into Tramlines, you will benefit from listening to episodes that feature experts and experienced farmers, who share valuable information on best practices, new techniques, and the latest research in agriculture.

Join the experts every three weeks as they address common problems and solutions and stay up-to-date with the latest developments.

With CPD points up for grabs on certain episodes, topics range from digital innovations to soil health and the discussions are supported by Agrii's extensive trials programme and environmental work.

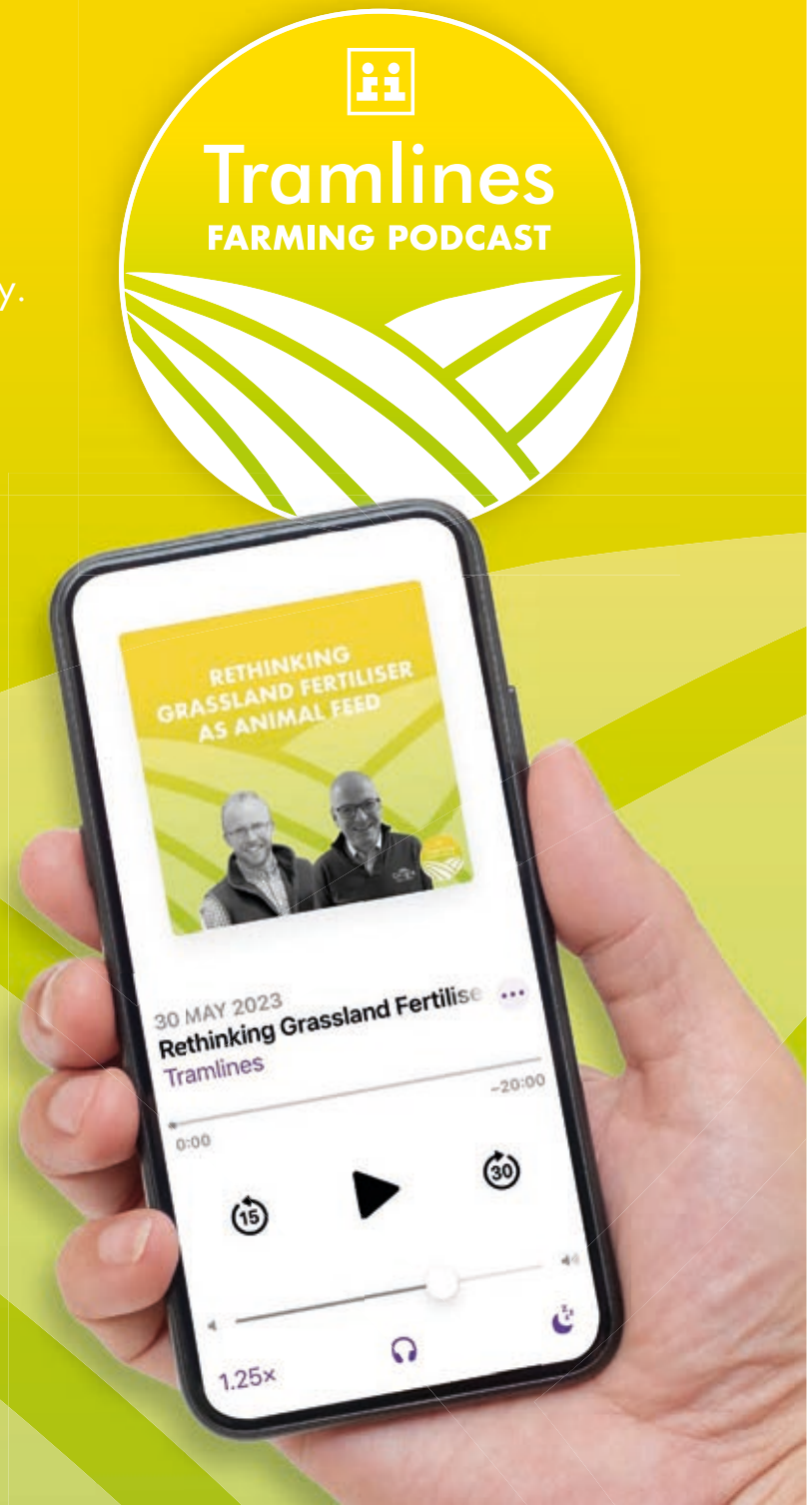
Top 3 Maize & Forage Episodes

1. Rethinking Grassland Fertiliser as Animal Feed

2. Getting the Most From Your Maize

3. Live from the Engine Room: Updated Forage Trial and Biogas Plant Results Available Now for Feedstock Choices this Season

Follow on your favourite podcast platform:
Or listen at: www.agrii.co.uk/tramlines-podcast



Reducing the environmental impact of maize

New techniques are being used to grow maize more sustainably, but which will fit best into your system?

Ben Lowe, Agrii's National Forage Product Manager, considers the options...

Avoiding fields with bare soil over winter following maize harvest helps to reduce the environmental impact from growing the crop, and also improves the soil.

Later harvested maize with no following crop until the following spring, is not only likely to be harvested in poorer conditions thereby potentially damaging soils, but also risks erosion and nutrient loss from the field. With maize there are a number of ways to improve soil resilience, but each has its benefits and challenges.

Grow an early maturing maize variety and plant a following crop after harvest

A starting point for decision-making should be assessing how likely maize stubbles will be in a condition to establish a following crop, usually either short-term grass or forage rye, the day after harvest.

The development of early maturing, high yielding maize varieties makes it more possible than previously. There has been a switch into early maturing maize varieties, as growers realise systems need to change. Ideally, you want harvest to be completed by mid-October to maximise the chances of being able to travel.

Varieties such as KWS Pasco and Limagrain's Resolute and Gema are changing the perception that the highest yielding varieties are also later maturing. These varieties are pushing the boundaries. Yields are higher and you can harvest two to three weeks earlier.

Most will likely follow with forage rye. It can be sown with minimum cultivations provided the field is in good condition, rapidly establishes and doesn't really stop growing through the winter, so provides either early grazing in spring or can be ensiled mid to late April. It not only provides winter cover, mopping up nutrients, reducing erosion and helping improve soils, but also provides a forage crop that can be utilised on farm or at home.

Please get in touch for more information on forage options in-between maize crops.

Undersown maize

The biggest risk from not undersowing maize is a delayed harvest or wet period following harvest that prevents the following crop being established.

For grain maize growers, undersowing maize is realistically the only option as harvest is not until November, while producers for livestock and anaerobic digestion should think carefully about whether establishing cover after harvest is likely.

If there is a risk of not being able to establish cover after harvest, then all aspects of maize production need to be assessed before starting. That includes whether the ground is suitable for maize at all, as well as variety choice.

Ensuring ground is not left bare after maize can reduce its environmental impact

Growing an early maturing variety such as Resolute (shown here) allows for a following crop – avoiding bare ground over winter and improving soil condition.

But undersowing maize, usually with grass, does provide a high level of assurance that you will have some winter cover following harvest. There are typically two options to establish the undersown crop – either plant it at the same time as the maize or around 4-6 weeks after maize drilling.

Planting at the same time as maize requires a specialist drill that can drill both maize and grass simultaneously. The advantage is a reliable one-pass method for establishing the grass early, plus precise seed placement between the rows minimising competition with the maize crop.

Competition can still be a problem if grass establishes quickly, but the biggest challenge is weed control post-drilling as herbicides are likely to remove the cover. The more common technique is to establish the grass once the maize reaches 6-8 leaf stage either by broadcasting with a fertiliser spreader or sowing with a pneumatic interrow disc coulter drill. Typically, interrow drilling costs £30-35/ha. Broadcasting is easiest, but establishment can be variable, while there can be the same issue about the availability of specialist drills. Usually, either festulolium, creeping red fescue or a perennial ryegrass is used.

You want something which is vigorous enough, but not over vigorous so it swamps the maize.

While a cut of silage could be taken in the following spring, these types of leys offer the opportunity for grazing by flying flocks of sheep. Grants from some water companies are available for undersowing grass to help cover the costs, which typically can be about £100/ha including drilling.

Other options?

New Agrii trials will be comparing a hybrid approach of undersowing the maize with companion crops, which potentially could also be established with forage rye following harvest. Outside of grass, we are interested in whether a legume companion crop could benefit the maize crop while growing by fixing some nitrogen, either reducing inputs or increasing yields.

One example from 2020 showed a 5 t/ha yield increase from a maize crop when clover was present as a companion crop. There's also the possibility of intercropping maize with something like beans, which in addition to fixing nitrogen might also add an extra protein source.

These trials will compare various companion crops, including beans, vetches and grass undersown with a interrow drill to investigate additional potential benefits.

One example from 2020 showed a 5 t/ha yield increase from a maize crop when clover was present as a companion crop.

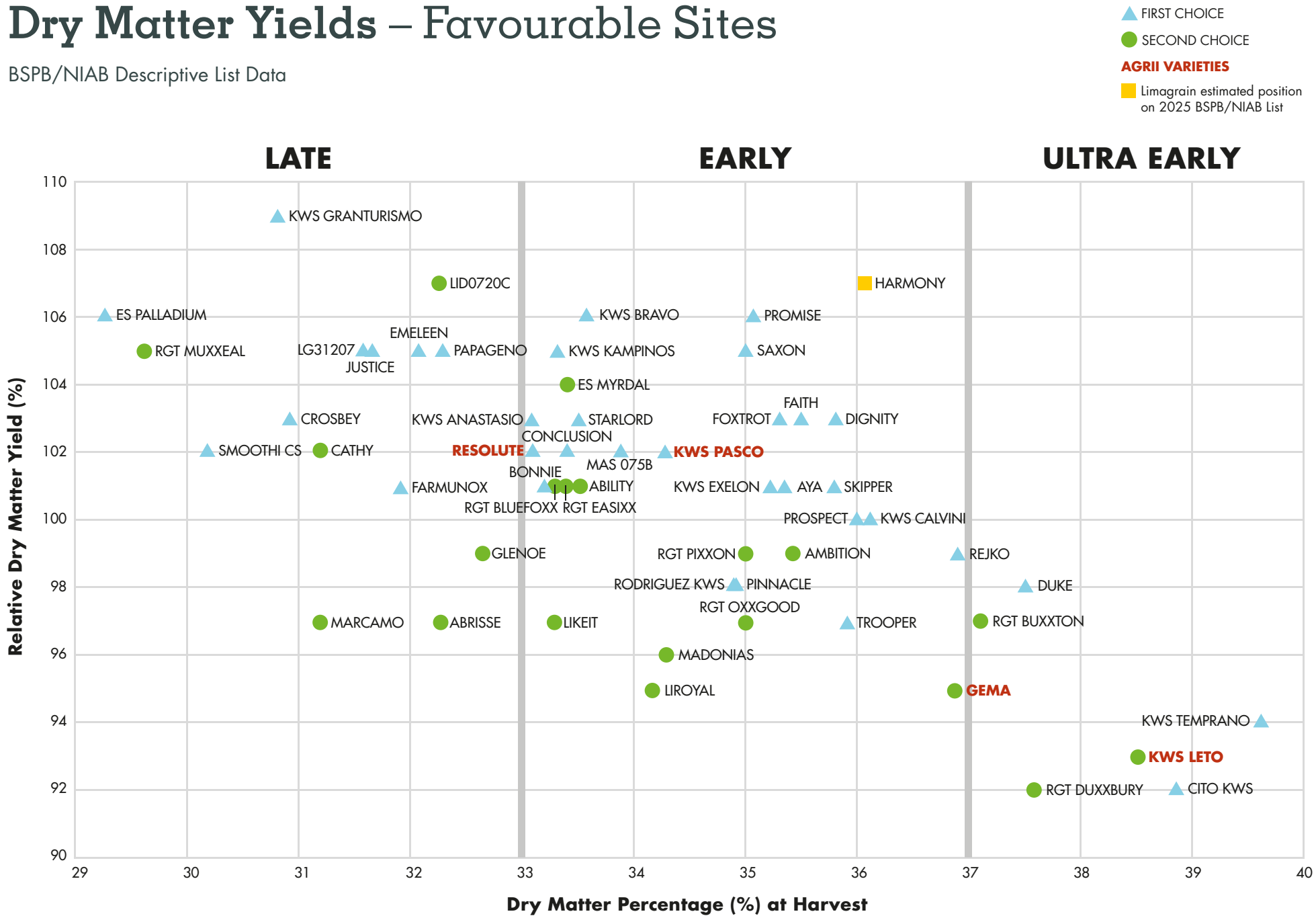
Lunator forage rye

GREEN HORIZONS

Green Horizons is Agrii's commitment to a sustainable future for food production. You can find out more and download our Green Horizons Insight Reports at www.agrii.co.uk/sustainable-farming/green-horizons

Dry Matter Yields – Favourable Sites

BSPB/NIAB Descriptive List Data

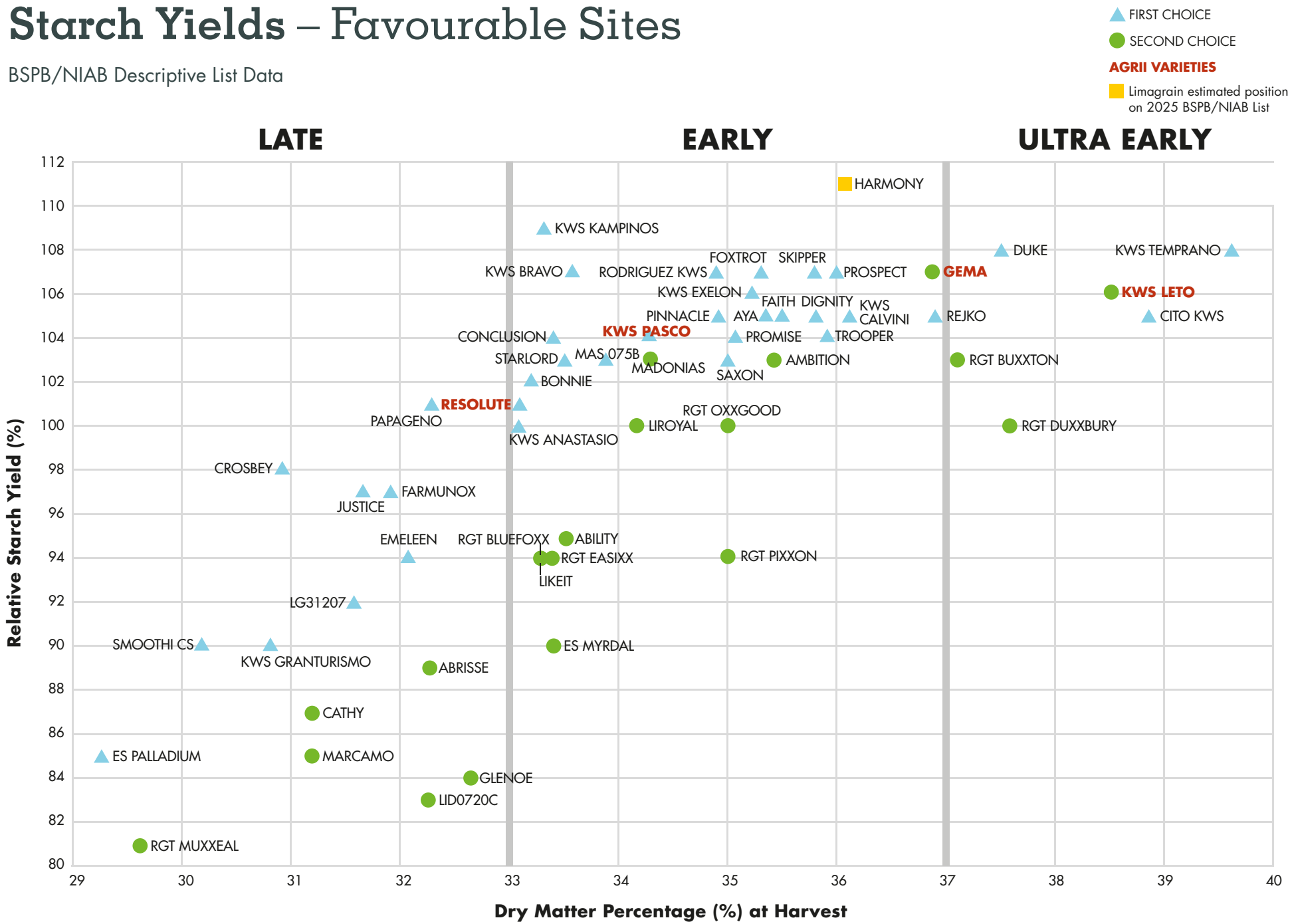


		VARIETY	MC*	FAO	DM % (at harvest)	DM YIELD (T/Ha)	RELATIVE DM YIELD (%)	EARLY VIGOUR°	STANDING POWER^	LODGING (%)	LEAF SENESCENCE^	EYESPOT RATING°	YEAR FIRST LISTED
	ULTRA EARLY	KWS TEMPRANO	12	150	39.6	17.3	94	6.7	7.7	0.8	4.3	4.8	2024
		CITO KWS	12	150	38.8	17.0	92	6.9	7.8	0.7	5.6	5.4	2018
		KWS LETO**	**12**	**150**	**38.5**	**17.3**	**93**	**6.6**	**7.9**	**0.6**	**4.1**	**5.0**	**2024**
		DUKE	11	150	37.5	18.1	98	7.0	7.7	0.8	6.2	6.1	2024
		GEMA**	**11**	**150**	**36.9**	**17.6**	**95**	**6.7**	**7.3**	**1.4**	**6.2**	**6.1**	**2021**
	EARLY	REJKO	10	160	36.9	18.4	99	6.7	8.1	0.3	6.2	6.2	2024
		KWS CALVINI	10	170	36.1	18.4	100	7.1	7.8	0.6	5.9	6.9	2019
		PROSPECT	10	170	36.0	18.6	100	7.1	7.8	0.7	7.2	7.2	2019
		TROOPER	10	160	35.9	18.0	97	7.1	8.2	0.2	6.8	1.6	2020
		SKIPPER	10	170	35.8	18.8	101	7.1	7.9	0.5	7.3	3.1	2023
		DIGNITY	10	170	35.8	19.2	103	7.1	7.6	1.0	6.8	2.6	2022
		FAITH	10	170	35.5	19.1	103	7.2	7.8	0.7	6.6	2.9	2023
		FOXTROT	10	170	35.3	19.0	103	7.2	6.7	2.2	7.2	2.7	2023
		AYA	9	170	35.3	18.6	101	6.9	7.7	0.8	7.2	2.6	2024
		KWS EXELON	8	180	35.2	18.7	101	6.9	7.1	1.6	6.9	8.1	2021
		PROMISE	8	180	35.1	19.6	106	7.1	7.4	1.2	6.6	2.5	2024
		SAXON	9	180	35.0	19.5	105	7.5	7.1	1.6	6.8	3.0	2022
		PINNACLE	9	180	34.9	18.2	98	7.0	7.4	1.2	7.2	6.6	2018
		RODRIGUEZ KWS	8	180	34.9	18.1	98	6.9	8.2	0.1	6.8	4.3	2015
		KWS PASCO	**9**	**170**	**34.3**	**18.9**	**102**	**6.9**	**7.6**	**1.0**	**6.9**	**7.5**	**2022**
		MAS 075B	8	180	33.9	18.9	102	6.8	6.9	1.9	6.9	5.8	2024
		KWS BRAVO	8	180	33.6	19.6	106	6.7	7.8	0.7	7.6	7.8	2024
		STARLORD	8	180	33.5	19.1	103	6.7	6.8	2.0	6.7	7.1	2024
		CONCLUSION	8	190	33.4	18.9	102	7.4	7.6	0.9	7.2	4.2	2020
		KWS KAMPINOS	7	190	33.3	19.5	105	6.8	4.7	4.8	7.3	5.0	2024
		BONNIE	7	190	33.2	18.6	101	7.2	7.9	0.6	7.6	6.2	2017
		KWS ANASTASIO	7	190	33.1	19.2	103	7.1	7.6	0.9	7.5	7.1	2022
		RESOLUTE	**8**	**190**	**33.1**	**19.0**	**102**	**7.0**	**7.6**	**0.9**	**7.5**	**2.5**	**2020**
	LATE	PAPAGENO	6	200	32.3	19.5	105	6.7	7.2	1.4	7.5	6.4	2024
		EMELEEN	6	210	32.1	19.5	105	6.9	7.5	1.0	7.2	7.4	2023
		FARMUNOX	6	210	31.9	18.7	101	6.4	6.8	2.0	7.7	7.1	2020
		JUSTICE	5	200	31.7	19.5	105	7.2	7.9	0.6	7.0	7.7	2024
		LG31207	5	210	31.6	19.4	105	7.1	7.9	0.6	7.4	7.8	2023
		CROSBEY	5	210	30.9	19.1	103	6.5	8.0	0.3	7.5	6.0	2023
		KWS GRANTURISMO	4	220	30.8	20.2	109	6.8	8.1	0.3	7.1	7.4	2024
		SMOOTHI CS	4	220	30.2	18.9	102	6.4	6.9	1.9	7.4	7.4	2019
		ES PALLADIUM	4	220	29.3	19.6	106	6.9	7.5	1.1	7.4	5.0	2023
SECOND CHOICE	ULTRA EARLY	RGT DUXXBURY	10	160	37.6	17.1	92	6.8	8.1	0.3	5.7	5.3	2018
		RGT BUXXTON	11	150	37.1	17.9	97	6.7	8.1	0.2	6.4	3.0	2024
	EARLY	AMBITION	9	180	35.4	18.4	99	7.1	8.1	0.3	6.9	6.3	2012
		RGT OXXGOOD	8	180	35.0	17.9	97	6.7	7.6	1.0	6.5	6.3	2016
		RGT PIXXON	9	170	35.0	18.4	99	6.7	7.8	0.7	7.4	6.7	2022
		MADONIAS	8	180	34.3	17.8	96	6.7	7.7	0.8	6.1	5.6	2018
		LIROYAL	8	180	34.2	17.6	95	6.2	7.8	0.7	6.4	6.0	2019
		ABILITY	8	190	33.5	18.6	101	7.1	8.0	0.4	7.4	5.6	2020
		RGT EASIXX	8	180	33.4	18.8	101	6.5	7.9	0.6	7.4	5.3	2023
		ES MYRDAL	8	180	33.4	19.2	104	7.1	7.0	1.7	7.3	6.3	2022
		RGT BLUEFOXX	8	180	33.3	18.7	101	6.5	8.0	0.4	7.6	5.0	2023
		LIKEIT	7	190	33.3	18.0	97	6.9	8.0	0.3	6.9	4.5	2018
		GLENOE	7	190	32.7	18.4	99	6.8	8.0	0.4	7.6	4.6	2023
	LATE	ABRISSE	6	210	32.3	17.9	97	5.9	7.9	0.5	7.3	8.2	2019
		LID0720C	6	200	32.3	19.8	107	7.6	6.3	2.7	7.5	6.3	2024
		MARCAMO	5	210	31.2	17.9	97	6.2	4.9	4.6	6.4	7.2	2019
		CATHY	5	210	31.2	18.9	102	7.1	7.8	0.7	7.9	5.3	2015
		RGT MUXXEAL	4	230	29.6	19.5	105	6.8	7.0	1.8	8.5	5.2	2024

** Second Choice * Agrii Estimate ^ 9=Good/1=Poor (At Harvest) ° 9=Good/1=Poor

Starch Yields – Favourable Sites

BSPB/NIAB Descriptive List Data

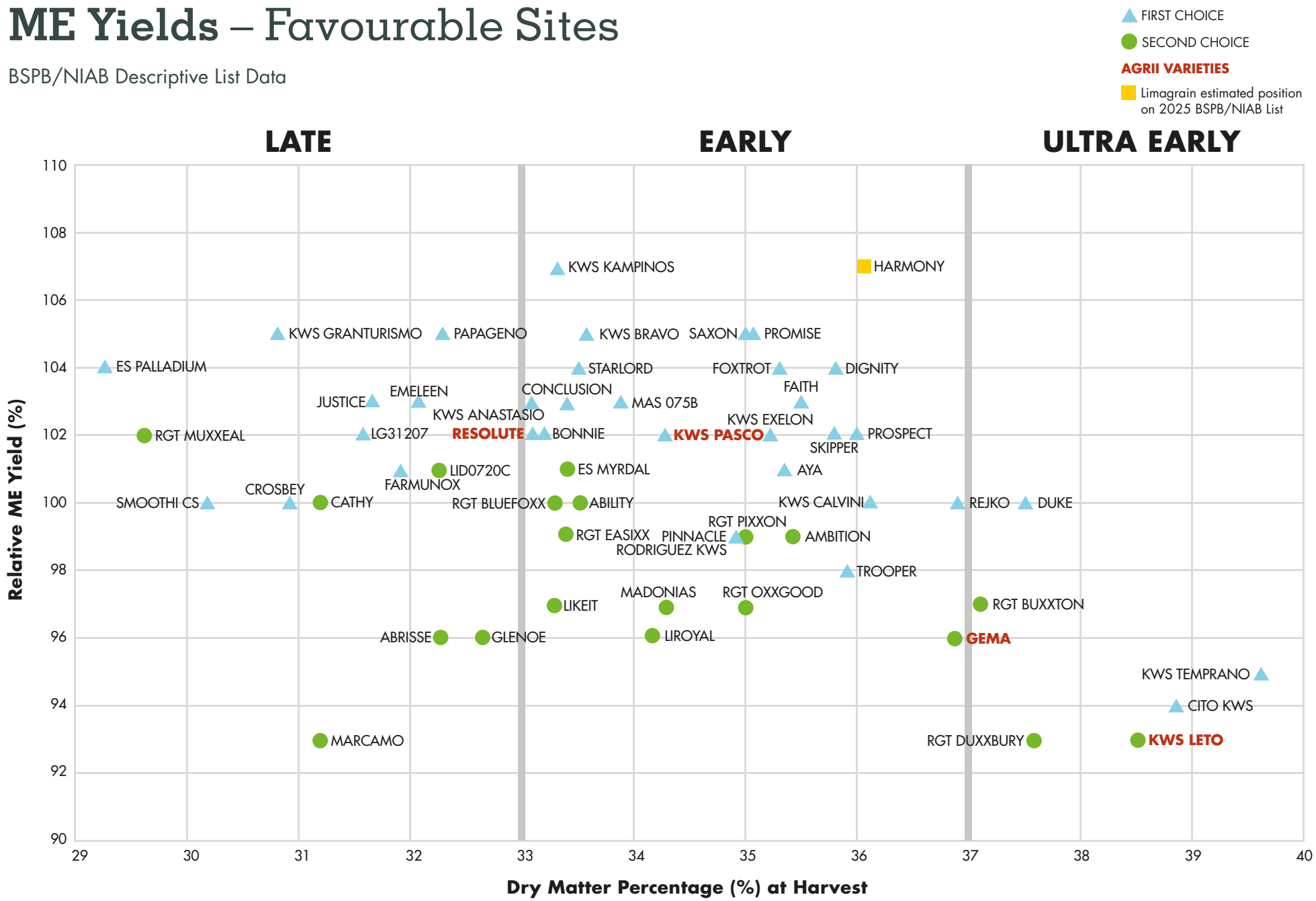


		VARIETY	MC*	FAO	DM % (at harvest)	STARCH % (at harvest)	STARCH YIELD (T/Ha)	RELATIVE STARCH YIELD (%)	YEAR FIRST LISTED
	ULTRA EARLY	KWS TEMPRANO	12	150	39.6	38.6	6.69	108	2024
		CITO KWS	12	150	38.8	38.6	6.54	105	2018
		KWS LETO**	**12**	**150**	**38.5**	**38.2**	**6.60**	**106**	**2024**
		DUKE	11	150	37.5	37.2	6.74	108	2024
		GEMA**	**11**	**150**	**36.9**	**37.6**	**6.60**	**107**	**2021**
	EARLY	REJKO	10	160	36.9	35.5	6.53	105	2024
		KWS CALVINI	10	170	36.1	35.6	6.56	106	2019
		PROSPECT	10	170	36.0	35.9	6.66	107	2019
		TROOPER	10	160	35.9	35.9	6.44	104	2020
		SKIPPER	10	170	35.8	35.5	6.66	107	2023
		DIGNITY	10	170	35.8	34.1	6.54	105	2022
		FAITH	10	170	35.5	34.2	6.52	105	2023
		FOXTROT	10	170	35.3	35.1	6.67	107	2023
		AYA	9	170	35.3	35.1	6.53	105	2024
		KWS EXELON	8	180	35.2	35.2	6.58	106	2021
		PROMISE	8	180	35.1	33.1	6.48	104	2024
		SAXON	9	180	35.0	32.9	6.41	103	2022
		PINNACLE	9	180	34.9	35.7	6.51	105	2018
		RODRIGUEZ KWS	8	180	34.9	36.7	6.65	107	2015
		KWS PASCO	**9**	**170**	**34.3**	**34.4**	**6.50**	**104**	**2022**
		MAS 075B	8	180	33.9	33.9	6.39	103	2024
		KWS BRAVO	8	180	33.6	34.0	6.65	107	2024
		STARLORD	8	180	33.5	33.6	6.40	103	2024
		CONCLUSION	8	190	33.4	34.2	6.44	104	2020
		KWS KAMPINOS	7	190	33.3	34.7	6.77	109	2024
		BONNIE	7	190	33.2	34.1	6.35	102	2017
		KWS ANASTASIO	7	190	33.1	32.5	6.22	100	2022
		RESOLUTE	**8**	**190**	**33.1**	**33.1**	**6.28**	**101**	**2020**
	LATE	PAPAGENO	6	200	32.3	32.0	6.25	101	2024
		EMELEEN	6	210	32.1	30.0	5.85	94	2023
		FARMUNOX	6	210	31.9	32.1	6.00	97	2020
		JUSTICE	5	200	31.7	30.9	6.03	97	2024
		LG31207	5	210	31.6	29.6	5.73	92	2023
		CROSBEY	5	210	30.9	31.8	6.07	98	2023
		KWS GRANTURISMO	4	220	30.8	27.8	5.61	90	2024
		SMOOTHI CS	4	220	30.2	29.6	5.60	90	2019
		ES PALLADIUM	4	220	29.3	26.9	5.28	85	2023
SECOND CHOICE	ULTRA EARLY	RGT DUXXBURY	10	160	37.6	38.2	6.60	100	2018
		RGT BUXXTON	11	150	37.1	36.3	6.40	103	2024
	EARLY	AMBITION	9	180	35.4	34.9	6.41	103	2012
		RGT OXXGOOD	8	180	35.0	34.6	6.20	100	2016
		RGT PIXXON	9	170	35.0	31.9	5.86	94	2022
		MADONIAS	8	180	34.3	35.9	6.39	103	2018
		LIROYAL	8	180	34.2	35.3	6.19	100	2019
		ABILITY	8	190	33.5	31.8	5.92	95	2020
		RGT EASIXX	8	180	33.4	31.1	5.83	94	2023
		ES MYRDAL	8	180	33.4	29.1	5.59	90	2022
		RGT BLUEFOXX	8	180	33.3	31.2	5.84	94	2023
		LIKEIT	7	190	33.3	32.7	5.87	94	2018
		GLENOE	7	190	32.7	28.3	5.20	84	2023
	LATE	ABRISSE	6	210	32.3	30.9	5.53	89	2019
		LID0720C	6	200	32.3	25.9	5.14	83	2024
		MARCAMO	5	210	31.2	29.4	5.28	85	2019
		CATHY	5	210	31.2	28.7	5.44	87	2015
		RGT MUXXEAL	4	230	29.6	25.8	5.04	81	2024

**** Second Choice * Agrii Estimate**

ME Yields – Favourable Sites

BSPB/NIAB Descriptive List Data

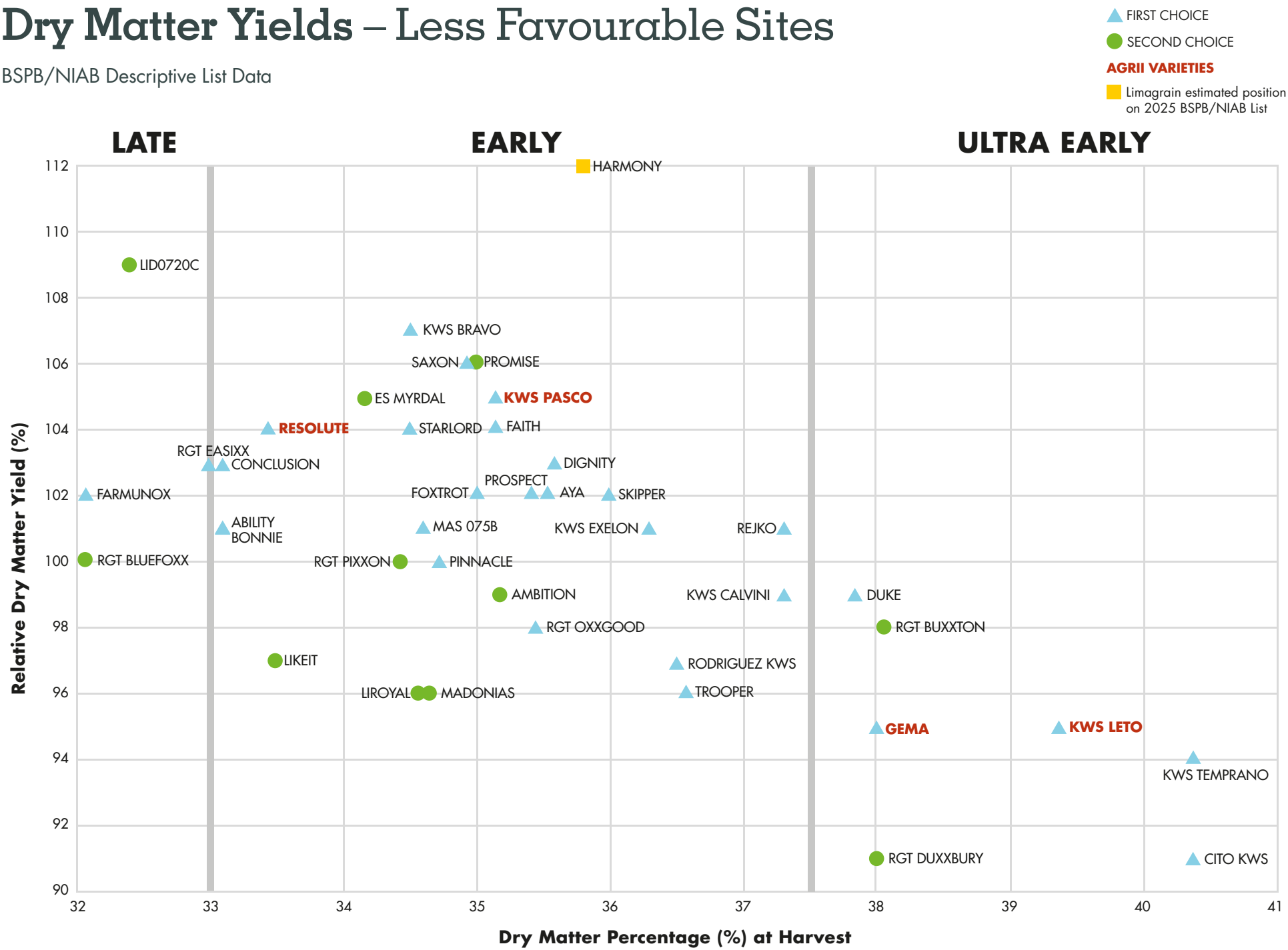


		VARIETY	MC*	FAO	DM % (at harvest)	ME (MJ/kg of DM at harvest)	ME YIELD (1,000's MJ/Ha at harvest)	RELATIVE ME YIELD	CELL WALL DIGESTABILITY (%)	YEAR FIRST LISTED
	ULTRA EARLY	KWS TEMPRANO	12	150	39.6	11.78	204	95	57.5	2024
		CITO KWS	12	150	38.8	11.96	203	94	59.0	2018
		KWS LETO**	**12**	**150**	**38.5**	**11.56**	**200**	**93**	**55.9**	**2024**
		DUKE	11	150	37.5	11.83	214	100	58.2	2024
		GEMA**	**11**	**150**	**36.9**	**11.7**	**206**	**96**	**57.5**	**2021**
	EARLY	REJKO	10	160	36.9	11.71	216	100	58.2	2024
		KWS CALVINI	10	170	36.1	11.71	216	100	58.1	2019
		PROSPECT	10	170	36.0	11.84	220	102	59.1	2019
		TROOPER	10	160	35.9	11.72	210	98	58.3	2020
		SKIPPER	10	170	35.8	11.68	219	102	57.9	2023
		DIGNITY	10	170	35.8	11.68	224	104	58.7	2022
		FAITH	10	170	35.5	11.64	222	103	58.2	2023
		FOXTROT	10	170	35.3	11.76	224	104	58.4	2023
		AYA	9	170	35.3	11.69	218	101	58.0	2024
		KWS EXELON	8	180	35.2	11.75	220	102	58.0	2021
		PROMISE	8	180	35.1	11.55	226	105	57.9	2024
		SAXON	9	180	35.0	11.63	226	105	58.1	2022
		PINNACLE	9	180	34.9	11.71	213	99	58.0	2018
		RODRIGUEZ KWS	8	180	34.9	11.76	213	99	58.3	2015
		KWS PASCO	**9**	**170**	**34.3**	**11.65**	**220**	**102**	**57.8**	**2022**
		MAS 075B	8	180	33.9	11.81	223	103	59.9	2024
		KWS BRAVO	8	180	33.6	11.56	226	105	57.3	2024
		STARLORD	8	180	33.5	11.73	224	104	59.6	2024
		CONCLUSION	8	190	33.4	11.79	222	103	59.4	2020
		KWS KAMPINOS	7	190	33.3	11.78	230	107	58.7	2024
		BONNIE	7	190	33.2	11.73	219	102	58.9	2017
		KWS ANASTASIO	7	190	33.1	11.56	222	103	57.9	2022
		RESOLUTE	**8**	**190**	**33.1**	**11.60**	**220**	**102**	**58.2**	**2020**
	LATE	PAPAGENO	6	200	32.3	11.53	225	105	57.7	2024
		EMELEEN	6	210	32.1	11.42	222	103	57.9	2023
		FARMUNOX	6	210	31.9	11.61	217	101	58.0	2020
		JUSTICE	5	200	31.7	11.40	222	103	57.4	2024
		LG31207	5	210	31.6	11.35	220	102	57.4	2023
		CROSBEY	5	210	30.9	11.32	216	100	56.4	2023
		KWS GRANTURISMO	4	220	30.8	11.24	227	105	57.1	2024
		SMOOTHI CS	4	220	30.2	11.34	214	100	57.8	2019
		ES PALLADIUM	4	220	29.3	11.41	224	104	58.5	2023
SECOND CHOICE	ULTRA EARLY	RGT DUXXBURY	10	160	37.6	11.68	200	93	57.9	2018
		RGT BUXXTON	11	150	37.1	11.61	208	97	57.4	2024
	EARLY	AMBITION	9	180	35.4	11.56	213	99	57.1	2012
		RGT OXXGOOD	8	180	35.0	11.66	209	97	58.2	2016
		RGT PIXXON	9	170	35.0	11.60	213	99	58.8	2022
		MADONIAS	8	180	34.3	11.77	210	97	58.4	2018
		LIROYAL	8	180	34.2	11.80	207	96	59.0	2019
		ABILITY	8	190	33.5	11.60	216	100	58.7	2020
		RGT EASIXX	8	180	33.4	11.38	213	99	57.6	2023
		ES MYRDAL	8	180	33.4	11.27	217	101	57.2	2022
		RGT BLUEFOXX	8	180	33.3	11.51	215	100	58.6	2023
		LIKEIT	7	190	33.3	11.56	208	97	57.9	2018
		GLENOE	7	190	32.7	11.24	206	96	57.0	2023
	LATE	ABRISSE	6	210	32.3	11.48	206	96	58.5	2019
		LID0720C	6	200	32.3	11.00	218	101	56.2	2024
		MARCAMO	5	210	31.2	11.13	200	93	55.5	2019
		CATHY	5	210	31.2	11.40	216	100	58.2	2015
		RGT MUXXEAL	4	230	29.6	11.25	220	102	58.2	2024

****** **Second Choice** ***** **Agrii Estimate**

Dry Matter Yields – Less Favourable Sites

BSPB/NIAB Descriptive List Data

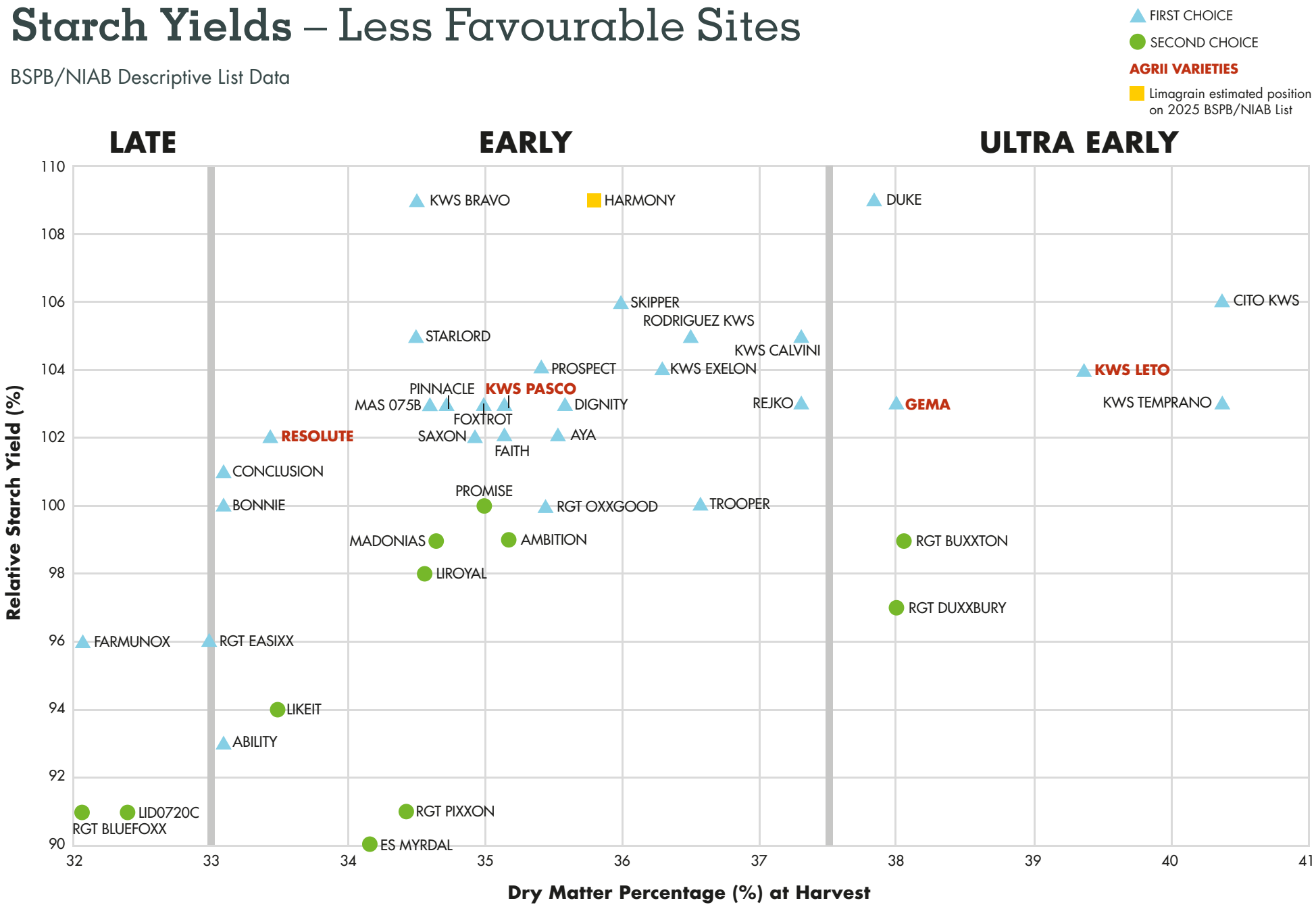


		VARIETY	MC*	FAO	DM % (at harvest)	DM YIELD (T/Ha)	RELATIVE DM YIELD (%)	EARLY VIGOUR°	STANDING POWER^	LODGING (%)	LEAF SENESCENCE^	EYESPOT RATING°	YEAR FIRST LISTED
	ULTRA EARLY	CITO KWS	12	150	40.4	16.6	91	6.8	7.6	0.9	4.6	5.4	2018
		KWS TEMPRANO	12	150	40.4	17.1	94	6.9	7.2	1.4	4.0	4.8	2024
		KWS LETO	**12**	**150**	**39.4**	**17.4**	**95**	**6.8**	**7.4**	**1.2**	**3.6**	**5.0**	**2024**
		GEMA	**11**	**150**	**38.0**	**17.4**	**95**	**6.9**	**7.2**	**1.5**	**5.7**	**6.1**	**2021**
		DUKE	11	150	37.8	18.1	99	6.9	7.4	1.2	6.2	6.1	2024
	EARLY	KWS CALVINI	10	170	37.3	18.1	99	7.0	7.8	0.7	5.5	6.9	2019
		REJKO	10	160	37.3	18.5	101	6.9	7.8	0.7	6.2	6.2	2024
		TROOPER	10	160	36.6	17.6	96	7.0	8.2	0.2	6.3	1.6	2020
		KWS EXELON	8	180	36.3	18.5	101	6.8	6.7	2.1	6.3	8.1	2021
		SKIPPER	10	170	36.0	18.6	102	6.8	7.9	0.6	7.4	3.1	2023
		DIGNITY	10	170	35.6	18.8	103	7.0	7.9	0.6	6.7	2.6	2022
		RODRIGUEZ KWS	8	180	35.6	17.7	97	6.9	8.2	0.2	6.3	4.3	2015
		AYA	9	170	35.5	18.6	102	7.2	7.5	1.1	7.1	2.6	2024
		PROSPECT	9	170	35.4	18.5	102	7.1	7.5	1.1	7.4	7.2	2019
		RGT OXXGOOD	8	180	35.4	18.0	98	6.8	7.5	1.0	6.2	6.3	2016
		KWS PASCO	**9**	**170**	**35.2**	**19.1**	**105**	**7.0**	**7.3**	**1.3**	**6.6**	**7.5**	**2022**
		FAITH	10	170	35.2	18.9	104	7.2	7.6	0.9	6.7	2.9	2023
		FOXTROT	10	170	35.0	18.7	102	7.0	6.2	2.8	7.2	2.7	2023
		SAXON	9	180	34.9	19.4	106	7.2	7.0	1.8	6.7	3.0	2022
		PINNACLE	8	180	34.7	18.3	100	6.8	7.1	1.6	7.3	6.6	2018
		MAS 075B	8	180	34.6	18.5	101	6.6	7.5	1.1	6.9	5.8	2024
		KWS BRAVO	8	180	34.5	19.6	107	7.0	7.8	0.6	7.4	7.8	2024
		STARLORD	8	180	34.5	18.9	104	6.7	7.4	1.2	6.7	7.1	2024
		RESOLUTE	**8**	**190**	**33.4**	**19.1**	**104**	**7.2**	**7.7**	**0.8**	**7.4**	**2.5**	**2020**
		ABILITY	8	190	33.1	18.5	101	6.9	8.1	0.3	7.5	5.6	2020
		CONCLUSION	8	180	33.1	18.8	103	7.3	7.7	0.9	7.4	4.2	2020
		BONNIE	7	190	33.1	18.4	101	7.2	7.8	0.6	7.7	6.2	2017
		RGT EASIXX	8	180	33.0	18.9	103	6.6	7.8	0.6	7.6	5.3	2023
	LATE	FARMUNOX	6	210	32.1	18.7	102	6.5	6.9	1.9	7.7	7.1	2020
SECOND CHOICE	ULTRA EARLY	RGT BUXXTON	11	150	38.1	18.0	98	6.9	7.8	0.7	5.8	3.0	2024
		RGT DUXXBURY	10	160	38.0	16.6	91	6.9	8.0	0.4	5.1	5.3	2018
	EARLY	AMBITION	9	180	35.2	18.1	99	7.0	7.9	0.5	7.0	6.3	2012
		PROMISE	8	180	35.0	19.4	106	7.1	7.1	1.7	6.7	2.5	2024
		MADONIAS	8	180	34.7	17.6	96	6.8	7.3	1.3	5.9	5.6	2018
		LIROYAL	8	180	34.6	17.6	96	6.4	7.7	0.8	6.2	6.0	2019
		RGT PIXXON	9	170	34.4	18.3	100	6.7	7.9	0.5	7.5	6.7	2022
		ES MYRDAL	8	180	34.2	19.1	105	7.1	6.6	2.2	7.4	6.3	2022
		LIKEIT	7	190	33.5	17.6	97	6.8	8.2	0.2	6.8	4.5	2018
		RGT BLUEFOXX	8	180	32.1	18.3	100	6.7	8.0	0.3	7.7	5.0	2023
	LATE	LID0720C	6	200	32.4	19.9	109	7.2	6.7	2.2	7.9	6.3	2024

*** Agrii Estimate ^ 9=Good/1=Poor (At Harvest) ° 9=Good/1=Poor**

Starch Yields – Less Favourable Sites

BSPB/NIAB Descriptive List Data

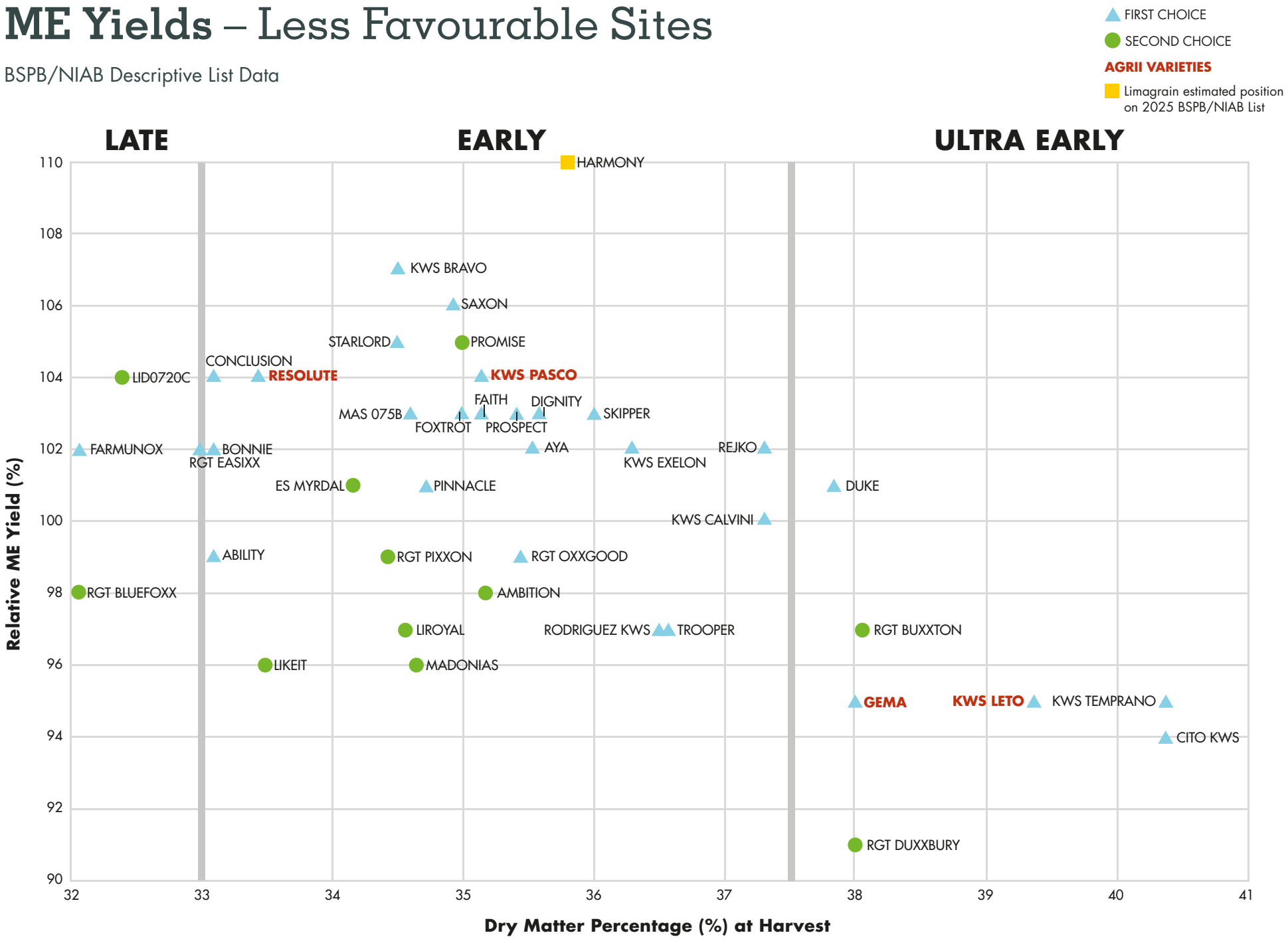


		VARIETY	MC*	FAO	DM % (at harvest)	STARCH % (at harvest)	STARCH YIELD (T/Ha)	RELATIVE STARCH YIELD (%)	YEAR FIRST LISTED
	ULTRA EARLY	CITO KWS	12	150	40.4	40.8	6.78	106	2018
		KWS TEMPRANO	12	150	40.4	38.5	6.60	103	2024
		KWS LETO	**12**	**150**	**39.4**	**38.4**	**6.67**	**104**	**2024**
		GEMA	**11**	**150**	**38.0**	**38.0**	**6.60**	**103**	**2021**
		DUKE	11	150	37.8	38.6	6.96	109	2024
	EARLY	KWS CALVINI	10	170	37.3	37.2	6.73	105	2019
		REJKO	10	160	37.3	35.5	6.57	103	2024
		TROOPER	10	160	36.6	36.3	6.39	100	2020
		KWS EXELON	8	180	36.3	35.8	6.63	104	2021
		SKIPPER	10	170	36.0	36.4	6.76	106	2023
		DIGNITY	10	170	35.6	34.9	6.57	103	2022
		RODRIGUEZ KWS	8	180	35.6	38.0	6.71	105	2015
		AYA	9	170	35.5	35.2	6.56	102	2024
		PROSPECT	9	170	35.4	36.1	6.69	104	2019
		RGT OXXGOOD	8	180	35.4	35.7	6.42	100	2016
		KWS PASCO	**9**	**170**	**35.2**	**34.7**	**6.62**	**103**	**2022**
		FAITH	10	170	35.2	34.6	6.54	102	2023
		FOXTROT	10	170	35.0	35.4	6.62	103	2023
		SAXON	9	180	34.9	33.9	6.56	102	2022
		PINNACLE	8	180	34.7	36.2	6.62	103	2018
		MAS 075B	8	180	34.6	35.5	6.56	103	2024
		KWS BRAVO	8	180	34.5	35.5	6.94	109	2024
		STARLORD	8	180	34.5	35.7	6.74	105	2024
		RESOLUTE	**8**	**190**	**33.4**	**34.2**	**6.53**	**102**	**2020**
		ABILITY	8	190	33.1	32.3	5.96	93	2020
		CONCLUSION	8	180	33.1	34.5	6.48	101	2020
		BONNIE	7	190	33.1	34.8	6.42	100	2017
		RGT EASIXX	8	180	33.0	32.5	6.14	96	2023
	LATE	FARMUNOX	6	210	32.1	33.0	6.16	96	2020
SECOND CHOICE	ULTRA EARLY	RGT BUXXTON	11	150	38.1	35.4	6.35	99	2024
		RGT DUXXBURY	10	160	38.0	37.5	6.22	97	2018
	EARLY	AMBITION	9	180	35.2	34.9	6.32	99	2012
		PROMISE	8	180	35.0	33.1	6.42	100	2024
		MADONIAS	8	180	34.7	35.9	6.32	99	2018
		LIROYAL	8	180	34.6	35.8	6.28	98	2019
		RGT PIXXON	9	170	34.4	32.0	5.84	91	2022
		ES MYRDAL	8	180	34.2	30.1	5.76	90	2022
		LIKEIT	7	190	33.5	34.0	5.99	94	2018
		RGT BLUEFOXX	8	180	32.1	31.8	5.82	91	2023
	LATE	LID0720C	6	200	32.4	29.1	5.79	91	2024

* **Agrii Estimate**

ME Yields – Less Favourable Sites

BSPB/NIAB Descriptive List Data

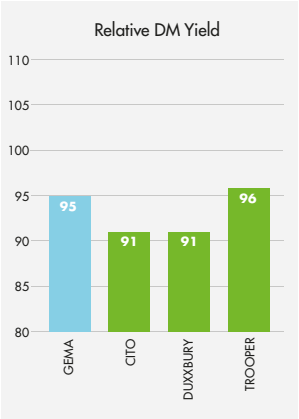


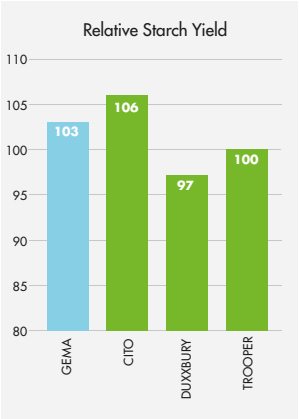
		VARIETY	MC*	FAO	DM % (at harvest)	ME (MJ/kg of DM at harvest)	ME YIELD (1,000's MJ/Ha at harvest)	RELATIVE ME YIELD	CELL WALL DIGESTABILITY (%)	YEAR FIRST LISTED
	ULTRA EARLY	CITO KWS	12	150	40.4	12.07	201	94	59.2	2018
		KWS TEMPRANO	12	150	40.4	11.76	201	95	57.7	2024
		KWS LETO	**12**	**150**	**39.4**	**11.61**	**202**	**95**	**56.6**	**2024**
		GEMA	**11**	**150**	**38.0**	**11.67**	**202**	**95**	**57.3**	**2021**
		DUKE	11	150	37.8	11.94	216	101	58.8	2024
	EARLY	KWS CALVINI	10	170	37.3	11.76	213	100	58.0	2019
		REJKO	10	160	37.3	11.70	216	102	58.3	2024
		TROOPER	10	160	36.6	11.76	207	97	58.4	2020
		KWS EXELON	8	180	36.3	11.69	216	102	57.8	2021
		SKIPPER	10	170	36.0	11.75	218	103	58.3	2023
		DIGNITY	10	170	35.6	11.68	220	103	58.5	2022
		RODRIGUEZ KWS	8	180	35.6	11.75	208	97	57.9	2015
		AYA	9	170	35.5	11.68	217	102	58.1	2024
		PROSPECT	9	170	35.4	11.79	219	103	58.7	2019
		RGT OXXGOOD	8	180	35.4	11.68	210	99	58.2	2016
		KWS PASCO	**9**	**170**	**35.2**	**11.57**	**221**	**104**	**57.4**	**2022**
		FAITH	10	170	35.2	11.59	219	103	57.8	2023
		FOXTROT	10	170	35.0	11.75	220	103	58.4	2023
		SAXON	9	180	34.9	11.67	226	106	58.4	2022
		PINNACLE	8	180	34.7	11.70	214	101	57.9	2018
		MAS 075B	8	180	34.6	11.88	219	103	60.0	2024
		KWS BRAVO	8	180	34.5	11.67	228	107	57.7	2024
		STARLORD	8	180	34.5	11.81	223	105	59.3	2024
		RESOLUTE	**8**	**190**	**33.4**	**11.67**	**222**	**104**	**58.3**	**2020**
		ABILITY	8	190	33.1	11.57	214	99	58.4	2020
		CONCLUSION	8	180	33.1	11.81	222	104	59.6	2020
		BONNIE	7	190	33.1	11.73	216	102	58.7	2017
		RGT EASIXX	8	180	33.0	11.47	217	102	57.8	2023
	LATE	FARMUNOX	6	210	32.1	11.60	217	102	57.6	2020
SECOND CHOICE	ULTRA EARLY	RGT BUXXTON	11	150	38.1	11.51	207	97	57.1	2024
		RGT DUXXBURY	10	160	38.0	11.70	194	91	57.9	2018
	EARLY	AMBITION	9	180	35.2	11.51	208	98	56.9	2012
		PROMISE	8	180	35.0	11.48	223	105	57.5	2024
		MADONIAS	8	180	34.7	11.67	205	96	58.0	2018
		LIROYAL	8	180	34.6	11.75	206	97	58.7	2019
		RGT PIXXON	9	170	34.4	11.54	211	99	58.7	2022
		ES MYRDAL	8	180	34.2	11.26	215	101	56.8	2022
		LIKEIT	7	190	33.5	11.55	204	96	57.4	2018
		RGT BLUEFOXX	8	180	32.1	11.45	210	98	58.1	2023
	LATE	LID0720C	6	200	32.4	11.14	222	104	56.3	2024

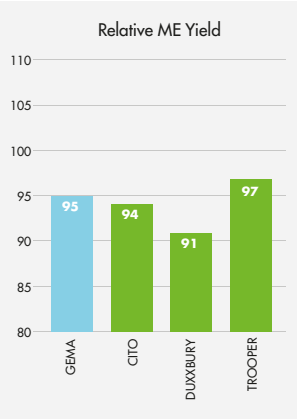
* **Agrii Estimate**

GEMA

+ Ultra Early
+ FAO 150
+ 95% Relative DM Yield
+ 17.4 Tonnes DM per Ha
+ 103% Relative Starch Yield
+ 6.6 Tonnes Starch per Ha
+ 95% Relative ME Yield
+ 202 GJ ME per Ha







Agrii's Comments

Gema takes overall yield and quality within the Very Early sector to a whole new level. Gema offers an early harvest but without paying significant overall yield penalties. Ideal for spreading harvest dates or producing more maize from marginal sites. **The start of a new beginning for Very Early varieties!**

Breeder's Comments

"Gema was new to the NIAB/BSPB list in 2022. With an FAO of 150, Gema is the earliest variety from the LG breeding programme, offering significant improvements in terms of agronomy, starch and yield to maize growers. Gema has good tolerance to diseases such as fusarium and eyespot and has excellent standing power."

Moving to earlier varieties has delivered more versatility and reliability in increasingly challenging growing seasons.

In 2022, we moved away from growing traditional mainstream maize varieties, on the advice we received from Agrii, and invested into newer and earlier genetics. All the time being conscious that we did not want to compromise on overall yield and quality – for both forage for our AD plant and grain production. Although we are in a favourable region of the UK to grow maize, earlier harvest dates should always be considered, especially when we're looking to establish crops after harvest.

Gema was selected as a new and much improved Ultra Early option, initially for grain production, but with the fallback that it would produce a very early crop of forage maize if we needed it, for any given reason. In our first year, we saw an improvement of two to three weeks in harvest date to what we had been growing previously and no compromise in yields at all. The crop also matured naturally, rather than gaining that ultra-earliness from rapid die back and losing flexibility for us at harvest.

Our 350 acres of maize cropping is split 65% for forage and 35% for grain and our land can range considerably from Grade 1 all the way to Grade 3 type quality. Gema has performed incredibly well for us across all soil types.

In 2022, harvest for AD feedstock was completed by the third week of August with yields averaging 20 tonnes per acre and that sown for grain production was safely in the shed by the end of September. So far, Gema has yielded 5 tonnes per acre for grain production this year on some very poor ground and through testing growing conditions.

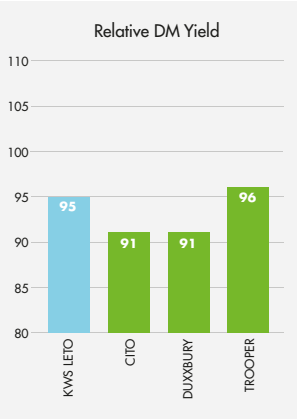
Although Gema is clearly a large step forward compared to existing Ultra Early varieties on the Descriptive List, we believe Gema reliably outperforms that data when harvested at a more commercial timing.

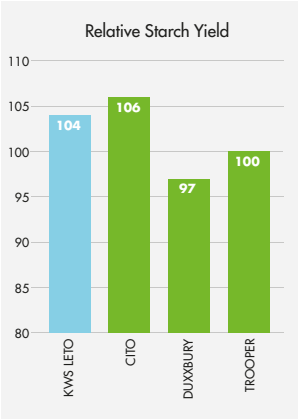
We believe that Gema has really pushed us forward in terms of securing an earlier harvest date, maintaining high yields and quality whilst allowing us to remain flexible within our system, should we need it.

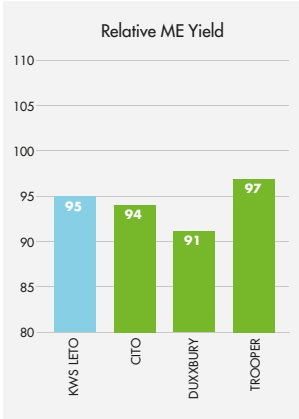
Clive & Richards Apps | Boxted Lodge Farm, Kent

KWS LETO

- + Ultra Early
- + FAO 150
- + 95% Relative DM Yield
- + 17.4 Tonnes DM per Ha
- + 104% Relative Starch Yield
- + 6.7 Tonnes Starch per Ha
- + 95% Relative ME Yield
- + 202 GJ ME per Ha







Agrii's Comments

New to the BSPB DL for 2025, KWS Leto is an exceptional addition to the Ultra Early sector. Well proven within Agrii, KWS and BSPB Trials, KWS Leto has consistently set a new standard in overall yield and quality within its maturity category. **When grown in a commercial setting, KWS Leto regularly performs even better than it does on paper!!**

Breeder's Comments

"KWS Leto is the short season champion! KWS Leto delivers an excellent early season DM yield, suitable for shorter growing season. A high energy hybrid to enhance animal performance."

If it's more you're looking for from an Ultra Early harvest date, look no further than Leto!

New to the BSPB Descriptive List for 2025, KWS Leto is the next generation within the Ultra Early sector. With ever changing weather patterns and increased focus on reducing environmental impacts of Maize, KWS Leto provides the solutions that UK growers are looking for. Tracked throughout its development within BSBP national trials and within Agrii screening sites over the last few years, KWS Leto has been a standout performer. Not only offering extraordinary earliness to harvest, but overall yield and quality output also. In most cases, KWS Leto will easily outperform official data when harvested at the target 32% DM in a commercial setting.

After the last couple of seasons, many growers will understandably be looking to achieve an earlier harvest date or work with a shorter growing season - KWS Leto will deliver on these requirements and supply very high quality and overall yields along the way.

In 2025, KWS Leto was grown as far north as Castle Douglas, South West Scotland and provided an early maturity date to ensure a following crop of forage rye was established, before returning back to Maize again in 2026 – all without the use of plastic! Throughout 2025, KWS Leto has shown itself to be at least one week earlier to harvest than any other variety within Agrii Maize demo sites across the UK.

If you're looking for maintained high yields and quality but from an earlier harvest date in 2025, let KWS Leto be your short season champion!

Ben Lowe | National Forage Product Manager

HARMONY

+ Early
+ FAO 170
+ 35.6 % DM
+ 19.9 Tonnes DM per Ha
+ 6.99 Tonnes Starch per Ha
+ 230 GJ ME per Ha
+ 57.0 CWD
+ 8.0 Vigour
+ 7.4 Standing Power
+ 7.1 Staygreen
+ 4/5 Eyespot

Limagrain estimated position on 2025 BSPB/NIAB Favourable list.

Agrii's Comments

Due to be added to the BSPB DL in 2025, Harmony offers incredible overall yields and quality from an early harvest. Screened within Agrii trials over the last two seasons, Harmony has been a standout variety and produces everything UK growers are looking to achieve from a new variety in both Favourable and Less Favourable regions.

Breeder's Comments

"Harmony is brand new and has shown great promise in Trials. Harmony is an early maturing variety with excellent digestibility. It has excellent early vigour and good standing power. This new variety has very high dry matter yields that reduce costs of production."

Harmony sets the stage to deliver unrivalled performance within the early maturity sector.

Due to be added to the 2026 BSPB descriptive List, LG Harmony will be a variety of choice for those growers looking to achieve maximum output and quality potential in 2025. Every once in a while, the extreme performance of a new line can catch the eye within national list trials, well in advance of it becoming a listed variety and reaching the UK market. In many cases, this initial data settles down and these varieties become less of an anomaly when compared to existing material. However, Harmony has continued to set new standards for overall yield and quality. Combined with an FAO of 170, this incredible performance also comes hand in hand with an early harvest date. Harmony has also been screened within Agrii maize demo sites throughout the UK over the last two years and has repeatedly been a standout variety and a key point of conversation by all those in attendance.

The last two seasons have presented UK growers, and their Maize crops, with severe challenges regarding establishment, crop development and harvest. However, Harmony has shouldered these pressures and delivered every time.

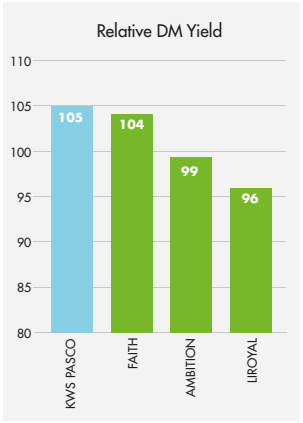
Within this year's Agrii Maize Guide, we have been able to plot Harmony within BSPB data using estimated information, kindly supplied by Limagrain, to ensure UK growers have access to Harmony's performance figures – ahead of its official listing in 2026. Agrii have a unique insight into the development of new Maize varieties for the UK market and this drives our selection process of the leading varieties for our customers.

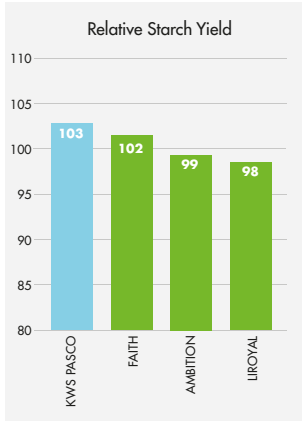
Whether you're in a favourable or less favourable region and growing for livestock or AD, Harmony is on-tune to be your next big hit!

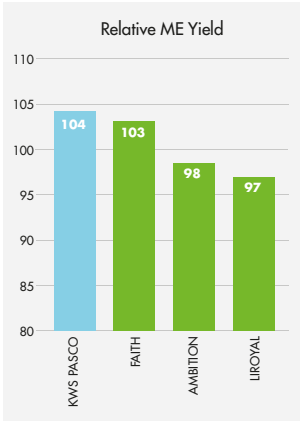
Ben Lowe | National Forage Product Manager

KWS PASCO

- Early
- FAO 170
- 105% Relative DM Yield
- 19.1 Tonnes DM per Ha
- 103% Relative Starch Yield
- 6.62 Tonnes Starch per Ha
- 104% Relative ME Yield
- 221 GJ ME per Ha







Agrii's Comments

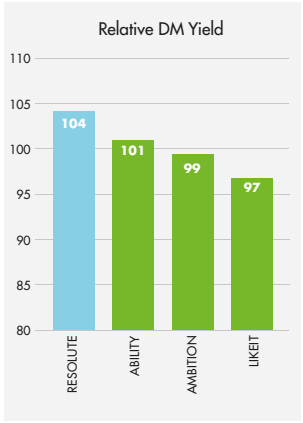
Pasco was identified by Agrii within official and breeders' trials as a stand-out performer from a very early stage. This exciting new variety is a superb addition to the early sector for growers looking to maximise both very high quality forage and huge overall yields. **The big variety with a bright future!**

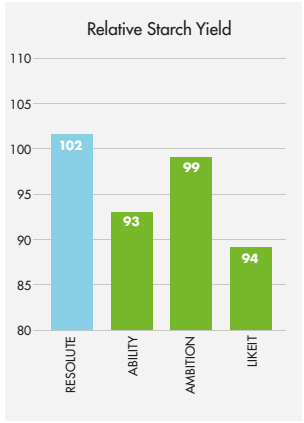
Breeder's Comments

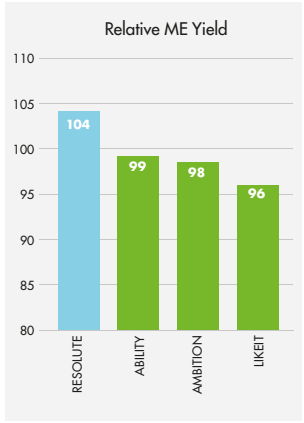
"KWS Pasco offers excellent performance for silage production with leading DM yields and quality. A stable single cross hybrid, KWS Pasco is ideal for CCM, moderate to high inclusions within TMR rations and also high starch silage for beef finishing."

RESOLUTE

- Early
- FAO 190
- 104% Relative DM Yield
- 19.1 Tonnes DM per Ha
- 102% Relative Starch Yield
- 6.53 Tonnes Starch per Ha
- 104% Relative ME Yield
- 222 GJ ME per Ha







Agrii's Comments

Resolute offers massive combined DM and ME yields. It achieves an earlier harvest yet maintains massive overall yields when compared to much later material. UK maize production must adapt for ever changing futures and Resolute already holds many of the answers. **The big hitting variety for any UK grower.**

Breeder's Comments

"The yield of Resolute is exceptional, the only variety to break the 19 t/ha barrier. Not only does Resolute offer a significant improvement in terms of yield, it also maximises feed quality from an early maize harvest. A truly impressive performer both on paper and in the field."

P7326

Breeder's Comments

"The earliest maturity and biggest selling Pioneer hybrid across the UK, Ireland and Scandinavia. P7326 reaches 30% dry matter faster than any other Pioneer hybrid. It is a proven choice for those sowing on favourable sites who seek an early harvest and less favourable sites where earliness and cold tolerance is critical to success."

P7034

Breeder's Comments

"A dent-like hybrid bred specifically for the cool maritime conditions of North West Europe. PACTS Results show the large degradable starch yield that P7034 can produce. This demonstrates that growers in cooler areas no longer need to rely solely on hybrids with flint textured grain that invariably produce much lower yields of rumen degradable starch."

Agrii are key UK distributors of Corteva's Pioneer Maize portfolio. Speak to your local Agrii Contact for any technical or commercial support and input you may require.

Post-cropping options

Forage Rye

A crop of forage rye can offer growers high yields of a quality forage between maize crops. It also offers valuable over-winter ground cover, mopping up nutrients, reducing erosion and helping to improve soils.

Established as soon as the maize crop has been harvested, forage rye has rapid early growth and very strong winter hardiness. The crop will be very quick to get growing in the New Year and ready to be cut and ensiled in late April or early May.

Sheep can also be introduced over the winter months for some additional grazing on forward and well established crops.

In Agrii Trials and Commercial Crop between 2020 and 2023, forage rye yields were 15-20 tonnes per acre at 30-34% DM.

"Forage rye can be sown with minimum cultivations, provided the field is in good condition, rapidly establishes and doesn't really stop growing through the winter, so provides either early grazing in spring or can be ensiled mid-late April."

Ben Lowe | Agrii National Forage Product Manager

Grass

Short-term grasses such as Westerwolds or Italian Ryegrass can provide an early bite at the start of spring, or alternatively, can offer a quality first-cut silage.

These grasses are vigorous and extremely quick to establish, even at lower soil temperatures of 3°C.

This enables the ley to get established before the winter period, also leading to earlier spring growth.

While only short-term, these species are very productive which means that weather permitting, growers will be able to take a high yielding and excellent quality cut of silage before preparing the field for the next crop.

LUNATOR from Elsoms Seeds offers an increase in vigour, winter hardiness and is earlier to harvest in the spring when compared to many other varieties on the market.

"Typical seed costs for Lunator forage rye are around £85/ha, plus another £35-55/ha for drilling. Compared with other varieties, Lunator offers extra yield and considerable advantages in earliness to harvest."

Ben Lowe | Agrii National Forage Product Manager

Maize Master

Specialist undersowing mixture for maize

Maize Master is a specifically formulated grass mixture to undersow within maize crops to improve travelling conditions at the time of harvest, provide ground cover over the winter, retain residual nutrients and supply additional forage within a rotation.

This dedicated mixture is comprised of three key components:

35% LOFA festulolium which is a genetic cross between a fescue and a perennial ryegrass. The main agronomic attributes which are carried through from this hybridisation are stress tolerance, yield and rooting capability. Enhanced rooting capabilities play a vital part in ensuring soil erosion is minimised and residual nutrients retained during the winter months.

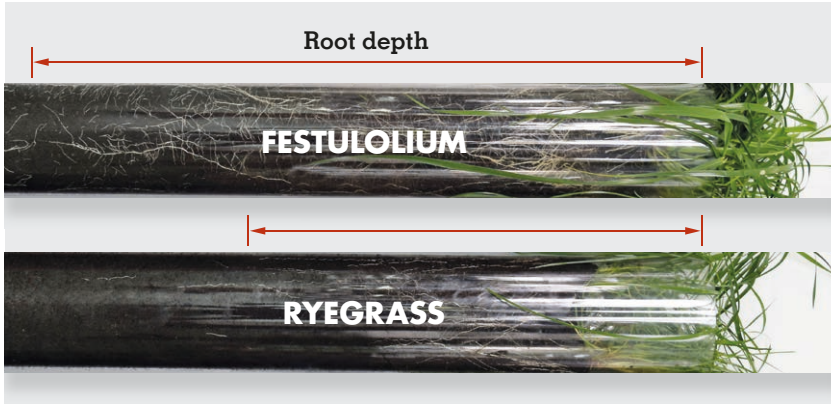
35% ABERECHO hybrid ryegrass enhances overall yield potential within the mixture and carries just enough aggression within the formulation to ensure it establishes well but does not outcompete the maize when undersown. This variety, although a hybrid, also has excellent ground cover ability.

30% ABERGAIN perennial ryegrass is a tetraploid with superb ground cover capabilities. This additional ground cover is key to ensuring soil structures are not damaged at the time of harvest, by improving travelling conditions for machinery.

- Pack size: 15 kg / 3 acre
- Seed rate: 5 kg per acre
- Maize Master can be sown when maize is drilled, or at the 6-8 leaf stage.

*Please note, varieties may change depending on supply.

Please see page 8 for more information about how undersowing your maize crop can help reduce its environmental impact and improve future farm resilience.



Anaerobic Digestion

Agrii has been able to provide the UK's AD Industry with a unique insight into commercial feedstock production since 2012.

Based 20 miles east of Leeds, Agrii's Brotherton trial site is home to an extensive Agrii R&D trials facility which focuses primarily on hybrid rye, forage rye, winter wheat, triticale and also maize.

The trials are specifically designed to supply leading technical management recommendations as well as screening many new genetic lines on an annual basis.

In addition to collating the UK's leading detailed agronomic data, we are also able to gain in depth methane production analysis from the 500 kW AD Plant that is also based at the iFarm.

Throughout the year, iFarm events and tours take place at the site to demonstrate the most up to date developments which can range from information on drilling date, seed rates and variety traits to input programmes.

The Brotherton site has also played a key role in Agrii's development of hybrid rye for grain and its place within today's UK market.

Agrii's varieties of choice for AD maize are:

GEMA RESOLUTE HARMONY

KWS LETO KWS PASCO FORTUNO

For more information on how Agrii can help you progress your AD business please contact:

Matt Richardson	Area Business Manager, North of England	07887 547287
Philip Marr	Hybrid Rye and Renewable Energy Consultant	07867 317116
John Charlton	Crop Inputs Specialist	07469 284165

New Digest-It® for AD farms

DIGEST-IT® is a biological slurry and digestate additive designed to increase nutrient recovery from slurry, while also reducing ammonia emissions.

How does DIGEST-IT® work?

DIGEST-IT® provides a rich food for microbes as well as dormant aerobic bacteria species that are able to feed on and break down the organic matter in the slurry and use the ammonia gas as a source of nitrogen to grow, thus turning it into microbial nitrogen.

Benefits of DIGEST-IT®

FOR SLURRY STORAGE:

- 80% reduction in ammonia losses, resulting in less smell from slurry when agitating or spreading.
- In trials over a 13-week period, the mean ammonia concentration level for untreated slurry was 20.9ppm compared to 4.2ppm for the DIGEST-IT® treated slurry – an 80% reduction.
- Anaerobic bacteria compost solids into plant-available liquid nutrients.
- 29% reduction in oven dry solids, reducing time required to agitate and pump slurry.
- Reduces surface crusting, reducing agitation time.

IN THE FIELD:

- Improves soil health by supplying "good" microbes to the soil.
- DIGEST-IT® treated slurry has a lower Biochemical Oxygen Demand (BOD) than untreated slurry, reducing the time soil is anaerobic after application.
- The reduction in dry solids aids absorption into the soil, reducing in-field ammonia losses.
- Average 30% improvement in N, P & K crop availability.
- Quicker flow rates and more accurate application of liquid.

Maize for Grain

Utilising maize crops for grain production is becoming a popular choice for many UK growers.

In many cases, crops that may be surplus to forage requirements following an ideal growing season are left for combining to supply an extremely high quality source of starch for feed rations.

Agrii also works closely with those who wish to produce grain only.

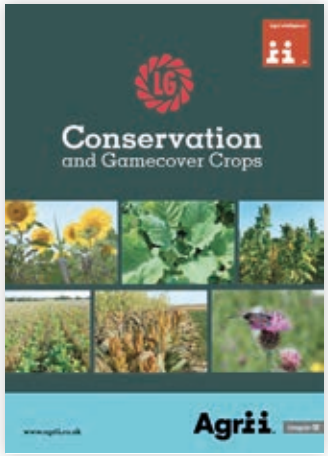
Agrii's varieties of choice for grain production:

RESOLUTE KWS PASCO HARMONY

Gamecover

Agrii is also able to recommend and supply maize varieties suitable for the UK gamecover market.

Reliability is key to ensure these crops produce viable cover throughout the entire shooting season, so making the right choice is crucial.



In addition to maize suitable for gamecover, Agrii also has access to a full range of alternative gamecover and environmental options.

Working closely with Limagrain and the HiBird portfolio, Agrii can cater for any requirement you may have for the coming season. Please get in touch for a copy of the HiBird brochure.

Agrii-Ferm MAIZE

Agrii-Ferm MAIZE is a biological Silage Additive designed to maximise the preservation of maize silage and produce a highly palatable, cool and stable feedstock – every time.

MAXIMISING STABILITY

The key to maize silage stability, both in the clamp and in the feed passage, is to control yeast and moulds.

Agrii-Ferm MAIZE will inhibit both yeasts and moulds during the fermentation process and supply long term stability. The result is a cool and stable maize silage which maximises animal performance from home grown forage.

USAGE INSTRUCTIONS

Each 500 ml bottle of Agrii-Ferm MAIZE will treat 50 tonnes of Maize Silage. This can be applied at any rate from 10 ml per Tonne to 2.0 L per tonne.

- Remove the lid and add clean, cold water until the bottle is half full.
- Replace the lid and shake vigorously to dissolve the contents.
- Remove the lid and fill to 5 mm above the shoulder of the bottle.
- Add to the tank on the applicator.
- Dilute as required with additional water.

Your Fertiliser Options

OPTION 1	OPTION 2	OPTION 3
✚ Low P indices ✚ Little/no organic material applied	✚ High P indices ✚ High organic matter applied ✚ All N in seedbed Accounting for 20 kg/ha of N from organic material	✚ Close to target P indices ✚ Little/no organic material applied
DAP Agrii Protected Phosphate (A.P.P) 18N 46P @125 kg/ha placement	**Agrii-Start Release** @4 ltr/ha pre-drilling **Agrii-Start Enhance** 46% N @175 kg/ha pre-drilling	**Maize Kicka** 18N-20P-27.5SO_3+0.8% Zn+Kicka+A.P.P. @62.5 kg/ha placement
Top Dress AN @230 kg/ha	No top dressing	Top Dress Agrii-Start Enhance @175 kg/ha
TOTAL COST: £157/ha*	**TOTAL COST: £99/ha***	**TOTAL COST: £138/ha***

*Prices accurate at the time of publication (October 2024)

Agristart®

MAGNUM 10-48-0 plus Zn

Agristart is a microgranular NP Complex fertiliser high in phosphorus combined with ammoniacal nitrogen (suited for early root uptake). The product also contains Quelaphos, an organo-humic complex designed to stimulate early root activity and promote root development.

Recommendations

CROP	APPLICATION RATE
Maize	25 to 50 kgs/ha
OSR	25 kgs/ha
Root crops	25 to 30 kgs/ha
Basic use	25 kgs/ha

Agronomic benefits

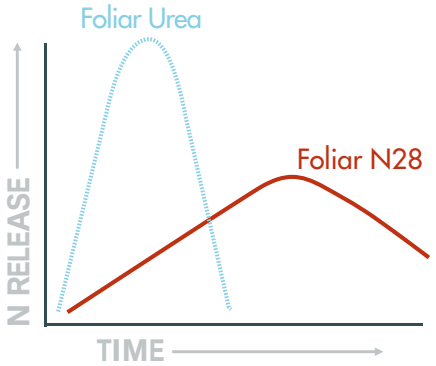
- ✚ Vigorous plant emergence.
- ✚ Improved early rooting.
- ✚ Rapid development of seedlings.
- ✚ Zinc activates enzymes in protein synthesis and is a component of auxin formation, a necessary plant hormone.
- ✚ Reduced leaching losses due to stable form of Nitrogen.

Agrii-Start

Efficie-N28-t

28% Foliar Nitrogen

- ✚ **28% Foliar Nitrogen** – Liquid Foliar Nitrogen Fertiliser.
- ✚ Unique Amide Nitrogen (NH2) formulation designed to provide **effective crop uptake whilst maximising crop safety**.
- ✚ The amide (NH2) formulation breaks down slowly to enable **faster plant uptake** compared to nitrate forms of N, resulting in **greater Nitrogen Use Efficiency** compared to traditional nitrogen fertilisers.
- ✚ **N28 is a useful tool** where growers need to supply additional nitrogen to crops where N availability may be limited.
- ✚ Due to the increase in NUE, **Foliar N in some situations can displace the need** for 40 kgs bagged nitrogen.



APPLICATION

Application Rate – 20 l/ha

Water Volume – 100-300 l/ha

Compatibility – Widely compatible with Ag Chem products, avoid hormone herbicides and late PGR products

CROP	RATE L/HA	WATER VOLUME	TIMING
Cereals	20	100-300 l/ha	T0 to T3
Maize	20	100-300 l/ha	8-12 Leaf Stage Onwards
Oil Seed Rape	20	100-300 l/ha	Late Green Bud/Early Flowering
Potatoes	20	100-300 l/ha	Post Flowering
Onions	20	100-300 l/ha	Bulb Initiation Onwards
Vegetable Crops*	20	100-300 l/ha	Full Leaf Cover
Grassland	20	100-300 l/ha	4 Weeks Pre Cutting

*Please seek label approval for vegetable crops

Agrii-Start Maize Kicka

Maize starter fertiliser

18 - 20 - 0 + 27.5% SO_3 + Zn + Kicka + P-Reserve

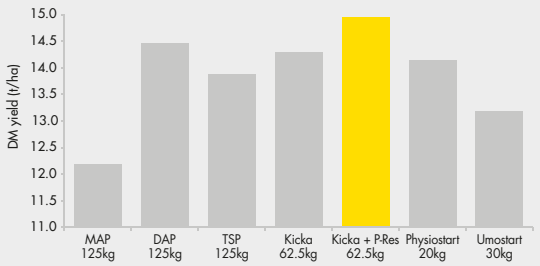
Kickstart your maize this Spring

Maize Kicka has been designed as a starter fertiliser with the nutrients required to enable the crop to develop rapidly from an early stage.

- **Maize Kicka** is a specifically formulated maize starter fertiliser for placement at planting.
- **It is a granular compound** (2 to 4mm) with the analysis – 18N – $20P_2O_5$ – $27.5SO_3$ – 0.8% Zn.
- **It is treated with "Kicka"** – Methanoic Zinc Amonionate – to promote root growth and help the plant access nutrients.
- **Maize Kicka is also treated with "P-Reserve"** to prevent phosphate lock-up and therefore increasing phosphate availability to the crop.
- **Environmental benefits** with targeted phosphate application with Maize Kicka compared to standard DAP.
- **Maize Kicka is cost effective against DAP** and is available in both 600 kg and 25 kg packs to ensure you only purchase the amount you need for your crop area.

Seedbed Fertiliser – Trials results

Source: NDSM, W, Curtiss, Sinnington, North Yorks



Maize Crop: Kent Maize Kicka Treated versus Untreated.

Agrii-Start Release

Soil Phosphorus Activator

- **Release is a unique soil phosphorus activator** for all soils <OM 30%.
- **Agrii-Start Release increases phosphate availability which leads to increased rooting development**, making the plant more resistant to stresses including take-all, drought and anaerobic soil conditions.
- **Release can be used on high P soils** to help unlock P for crop uptake on sites where P availability may be limiting.
- **Release also increases the availability of other soil nutrients** including P, Zn, Mn, B, and Cu.
- **Release can be used effectively** on both high and low pH soils.

Benefits for maize

- A useful tool where maize growers are looking to reduce traditional applications of DAP.
- Works to increase solubility of soil available phosphorus during the early establishment phases of maize growth.
- Increases the availability of locked up forms of phosphate in the soil.

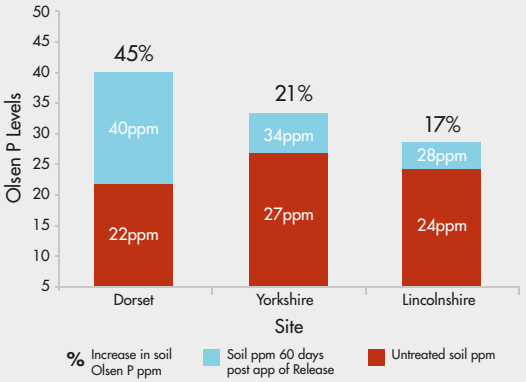
Agrii-Start Release – application for maize

- **Can be applied pre-emergence** and suitable for tank mixing.
- **Best applied into moist soils,** to increase soil coverage Release can be used with silicone wetter.
- **Recommended rate of application** for maize: 4.0 l/ha +/- silicone wetter.
- **When to apply:** apply pre-drilling/early post drilling.
- **Can be applied** before or during light rainfall.

Olsen P Increases

- Agrii-Start Release has been shown to increase P levels in the soil post application.

*Release applied at 4.0 l/ha.
Data based upon the principle that to raise soil Olsen P by 10 ppm requires 400 kgs/ha P_2O_5



Master Leys

The Master Leys range of grass mixtures offers full and comprehensive options for all types of farming systems and regions of the UK.

Working closely with leading grass seed breeders throughout the UK and Europe, Agrii is able to access the best varieties for the Master Leys portfolio.
In addition to this, Agrii grows and produces more than 80% of the seed used to produce Master Leys.

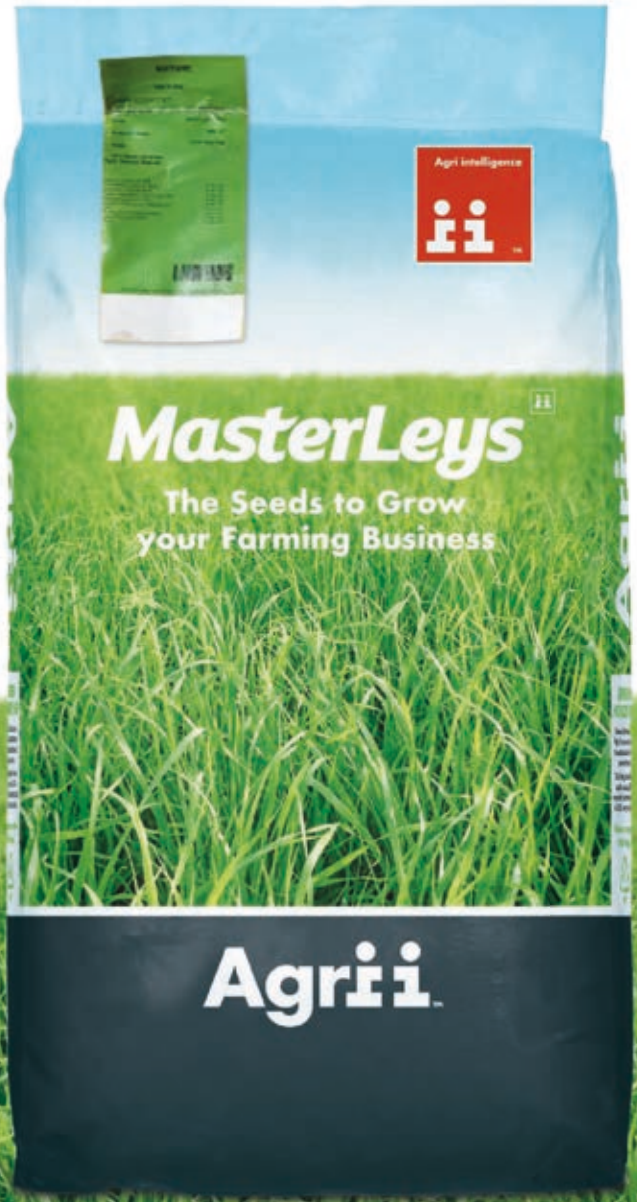
This gives us greater control over the quality of the seed we use and ensures that what goes into a Master Leys bag is of the highest possible standard. The best varieties from the Grass and Clover Recommended List are specifically chosen for each Master Leys mix.

We're continually developing and innovating our variety choices and mixtures – ensuring that we provide the most resilient and best performing grass mixtures for your specific requirements and current climates.

The story doesn't stop with the seed in the bag.

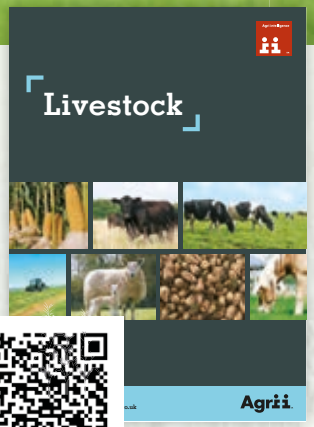
Agrii agronomists and crop input specialists provide advice throughout the lifetime of the ley to ensure the best possible returns from your grass. This covers nutrition, weed control and forage nutrient analysis, together with support on animal health and advice on storage.

This integrated approach to making your grass work harder will help drive on farm profitability from your home grown forage.



Please get in touch for more information about our grass mixtures, or for a copy of the Agrii Guide to Grass & Roots, or the Agrii Livestock Directory.

You can also scan the QR codes or click on the cover images for the digital versions.



Master Leys Mixture Selector England & Wales

SHORT TERM

BULK MASTER
One to two year cutting
Grazing: ★
Cutting: ★★★★★
Hay: ★★★★

SILAGE MASTER
Two year cutting
Grazing: ★★
Cutting: ★★★★★
Hay: ★★★

MEDIUM TERM

CUT MASTER
Three to four year cutting
Grazing: ★★★
Cutting: ★★★★★
Hay: ★

PROTEIN MASTER
Three year cutting
Grazing: ★★★
Cutting: ★★★★★
Hay: ★

DROUGHT MASTER
Five to six year cutting & grazing
Grazing: ★★★★
Cutting: ★★★★
Hay: ★

FORAGE MASTER
Five to six year cutting & grazing
Grazing: ★★★★
Cutting: ★★★★
Hay: ★★

FIELD MASTER
Five to six year cutting & grazing
Grazing: ★★★★
Cutting: ★★★★
Hay: ★★★

LONG TERM

SWARD MASTER
Six year plus intensive grazing
Grazing: ★★★★★
Cutting: ★★★
Hay: ★★★

SWARD MASTER PLUS
Multi-species grazing mix
Grazing: ★★★★★
Cutting: ★★
Hay: ★

STOCK MASTER
Six year plus cutting/grazing
Grazing: ★★★★
Cutting: ★★★★
Hay: ★★

MULTI MASTER PLUS
Six year plus cutting
Grazing: ★★★
Cutting: ★★★★★
Hay: ★

OVERSEEDING

ST OVER MASTER
Rejuvenate one to two year
Grazing: ★
Cutting: ★★★★★
Hay: ★

MT OVER MASTER
Rejuvenate three to four year
Grazing: ★★★
Cutting: ★★★★
Hay: ★

LT OVER MASTER
Rejuvenate five plus years
Grazing: ★★★
Cutting: ★★★★
Hay: ★

HORSE & PONY

HORSE AND PONY PLUS PERENNIAL RYEGRASS
Six plus years

LAMI-LESS HORSE AND PONY
Six plus years

ST HAY MASTER
Two years

LT HAY MASTER
Six plus years

ST HAYLAGE MASTER
One to two years

LT HAYLAGE MASTER
Six plus years

Suitability scores: ★ = less suitable ★★★★★ = more suitable

No clover version available
White clover version available
Red clover version available

Master Leys Mixture Selector Scotland

SHORT TERM

BULK MASTER
One to two year cutting
Grazing: ★
Cutting: ★★★★★
Hay: ★★★★

SHORT/MEDIUM TERM

PROTEIN MASTER
Two to three year cutting
Grazing: ★★★
Cutting: ★★★★★
Hay: ★

MEDIUM TERM

CUT MASTER
Three to four year cutting
Grazing: ★★★
Cutting: ★★★★★
Hay: ★

SILAGE MASTER
Four to six year cutting
Grazing: ★★★
Cutting: ★★★★★
Hay: ★★

TURBO MASTER
Four to six year cutting/grazing
Grazing: ★★★★
Cutting: ★★★★
Hay: ★★

FIELD MASTER
Four to six year cutting/grazing
Grazing: ★★★★
Cutting: ★★★★
Hay: ★★★★

MEDIUM/LONG TERM

SCOT MASTER
Four to seven year cutting/grazing
Grazing: ★★★★
Cutting: ★★★★
Hay: ★★

LONG TERM

SWARD MASTER
Seven year plus intensive grazing
Grazing: ★★★★★
Cutting: ★★★
Hay: ★★

SWARD MASTER PLUS
Multi-species grazing mix
Grazing: ★★★★★
Cutting: ★★
Hay: ★

HILL MASTER
Seven year plus hardy grazing
Grazing: ★★★★★
Cutting: ★★
Hay: ★★

OVERSEEDING

ST OVER MASTER
Rejuvenate one to two year
Grazing: ★
Cutting: ★★★★★
Hay: ★

MT OVER MASTER
Rejuvenate three to four year
Grazing: ★★★
Cutting: ★★★★
Hay: ★

LT OVER MASTER
Rejuvenate five plus years
Grazing: ★★★
Cutting: ★★★★
Hay: ★

HORSE & PONY

HORSE AND PONY PLUS PERENNIAL RYEGRASS
Six plus years

LAMI-LESS HORSE AND PONY
Six plus years

ST HAY MASTER
Two years

LT HAY MASTER
Six plus years

ST HAYLAGE MASTER
One to two years

LT HAYLAGE MASTER
Six plus years

Suitability scores: ★ = less suitable ★★★★★ = more suitable

No clover version available
White clover version available
Red clover version available

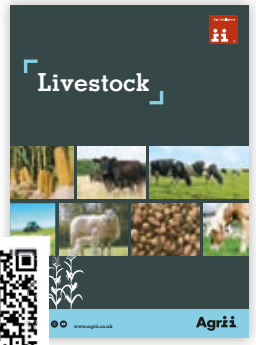
Bringing forage and livestock together

Adopting an integrated approach to managing your forage system can help to improve its performance, and consequently the productivity of your livestock.

Agrii specialists in nutrition, seed, forage, animal health, agronomy and precision work together, using the latest technologies in a joined up way – helping you to increase your profits sustainably.

All of this expertise is backed up by the latest research and most up-to-date agri-intelligence on grassland productivity, translated into practice on our local demonstration sites. We can provide the products, support and advice that you need across all areas of your mixed or livestock enterprises.

If you would like a copy of the Agrii Livestock Directory, please scan the QR code, email info@agrii.co.uk, speak to your usual Agrii contact or call Emma Gatehouse on 07966 664096.



The Agrii Livestock Team is made up of highly qualified and dedicated advisory staff, who provide a professional, advice-based service, in addition to supplying the following products.

- Vaccines for beef, sheep, suckler cow and dairy enterprises
- External and internal parasite control products for all farm animals
- Trace element drenches and boluses for sheep and cattle
- Superstock proteins for home mixing
- Calf and lamb milk powders and follow on products
- Protein and mineralised buckets and feed blocks
- Compound feeds
- Dairy and hygiene chemicals
- Mobile livestock handling equipment
- Cereal, grassland and forage crop seed
- Silage preservation products
- Cereal harvest preservation products
- Farm plans
- Worming programmes, including faecal egg counts

Agrii: for all your livestock needs.

Helping you manage each stage of the production cycle

R&D
Research plots across the UK identify the best growing programmes

VARIETY & SEED SELECTION
Optimising crop selection for the soil type

ESTABLISHMENT
Identifying the most cost effective cultivation system

SOIL & NUTRITION
Maximising soil potential and setting up yield potential using Contour

WEEDS & DISEASE
Crop protection programmes that maintain yield and quality

MICRO-NUTRITION
Correcting deficiencies that limit yield and quality

ENVIRONMENT
Ensuring due diligence and compliance

CROP PACKAGING
Efficient post-harvest management and supply

ANIMAL MEDICINES AND NUTRITION
Qualified research-based advice and supply

For more information, please get in touch with your usual agronomist, or your local crop input specialist, shown on the map below:

1	Barny Henderson	07976 953081
2	Tim Hatton	07827 831275
3	Jack Wilson	07557 156934
4	Harriet Blakey	07593 385979
5	John Charlton	07469 284165
6	Alex Rogers	07469 284694
7	David O'Donohoe	07551 327710
8	Samantha Dungworth	07841 777026
9	Sophie Dillon	07826 956226
10	Ian Roe	07866 142260
11	Michael Sawyer	07824 016466
12	Libby Richards	07866 139573
13	Poppy Bunting	07967 593776
14	Sammy Johnson	07792 981848
15	Saul Creed	07836 548654
16	Rob Stuart	07563 390273
17	Ian Davy	07890 550559
18	Angie Baker	07796 193895
19	Ellie Browning	07814 094803
20	Lily Butters	07917 460937
21	Tom Perrott	07976 437568
22	Will Sanderson	07980 943538
23	Cas Sandy	07970 641741
24	Dan Wood	07774 710799
25	Emily Naylor	07563 394806

Ben Lowe
National Forage Product Manager
07966 533374

Adam Simper
National Grass, Roots and Environmental Seeds Manager
07767 007021

Simon Hobbs
Cover Crop, Environmental and Wildflower Seeds Technical Manager
07770 643365