

Sugar Beet Varieties 2026

SEEDING
THE FUTURE
SINCE 1858



Welcome to KWS' Sugar Beet Varieties 2026

With the increasing need for resilience in the arable rotation we're pleased to share the choices provided by KWS UK for your sugar beet crop in 2026.

While we strive for yield improvement, we continue to see other characteristics take on additional importance in protecting the sugar beet crop – particularly as more of our important active ingredients are at risk.

Our recent developments such as CONVISO® SMART and GENEROSA KWS continue to offer choice, both for innovative weed control and tolerance to BMVYV respectively. Our most recent development CR+, offers growers vastly improved tolerance to Cercospora whilst maintaining very high yields, with and without disease infection.

KWS' breeding and development work is underpinned by our trials capability in the UK. Look out for a few facts throughout the booklet on the cutting edge work our Trials and AgroService Teams are carrying out. Please do get in touch if you would like to see or hear more about what we are doing.

Best wishes for a productive and safe crop in 2025.



Martin Brown
AgroServices Manager Sugar Beet UK.



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KWS GROUP

Serving farmers
for **over 165 years**

KWS is one of the world's leading seed suppliers offering innovative solutions to farmers in 70 countries. Focusing on grower's challenges and responding with innovative tools, technology and hybrid performance, KWS provides seed with high-performing genetics supporting today's progressive farmers and producers.



■ BREEDING STATIONS
■ TEST LOCATIONS FOR TRIAL CULTIVATION

KWS seeds the future

Our high-yield seeds and extensive knowledge make us a trusted partner of farmers – for generations. In this way, we contribute to solutions for the nutrition of a steadily growing world population. KWS invests almost 20 % of its net sales on research. Our portfolio includes 11 from the 13 most cultivated crops worldwide.

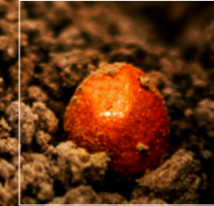


CORN SUGARBEET POTATO SOYBEANS VEGETABLES BARLEY RAPESEED SORGHUM SUNFLOWERS WHEAT RYE

Focus on Your Growth



SOLUTIONS



PERFORMANCE



INNOVATION



RESEARCH



SERVICES



For more than 165 years, KWS is focused on your growth.

www.kws.com



Sugar beet varieties for drilling in 2026 | Adapted from BBRO recommended list of Sugar Beet Varieties 2026

Rz1 rhizomania varieties											
	BTS1915	ANTLER	KATJANA KWS	HARRYETTA KWS	DAPHNA	CHYMA KWS	GADWELL	ANNATINA KWS	JOSEPHINA KWS	HOOPOE	
Status: (C) = control variety ¹	Y6(C)	Y1	Y5(C)	Y4(C)	Y9(C)	Y2	Y1	Y4(C)	Y2	Y1	
AYPR/BCN/ALS/VY as claimed by the Breeder ⁶	-	-	BCN	BCN	BCN	CERC	-	-	-	BCN	
CROP YIELDS²	MEAN										
Adjusted tonnes % of C=100% ³	99.1t/ha	101.4	100.6	99.9	99.8	99.6	99.4	99.4	99.3	98.4	97.7
Sugar yield % of C=100% ³	15.9t/ha	101.4	100.6	99.9	99.8	99.6	99.4	99.4	99.3	98.4	97.7
Root yield % of C=100% ³	95.0t/ha	102.2	99.4	98.9	100.6	100.3	99.5	99.1	98.1	96.2	98.3
Sugar content %	16.70%	16.5	16.8	16.9	16.6	16.6	16.6	16.7	16.9	17.1	16.6
BOLTERS per 100,000 plants/Ha	MEAN										
“X” Unsuitable for sowing BEFORE Mid March	X					X					
“X” Unsuitable for sowing BEFORE Mid March	X					X					
Early sowing, before 5 March ⁴	2,206/ha	8016	[3169]	1871	1805	2573	7260	[1904]	2681	1432	[3365]
Normal sowing	14/ha	30	0	19	14	0	14	0	9	0	0
PRE-GAPPING ESTABLISHMENT⁵											
Control	3.6	101.8	100.3	99.8	100.8	100.6	100.4	101.6	97.1	98.7	99.0
DISEASE											
(1 = high leaf infection 9 = very low leaf infection)⁵											
Rust	6.6	[3.4]		3.8	3.9	4.9	7.0	[4.1]	6.0	6.2	[1.3]
Powdery mildew	5.3	[3.5]		5.6	5.9	5.7	5.9	[5.7]	5.6	1.3	[3.6]
Cercospora	[8.0]	-		[7.4]	[7.3]	[7.9]	[8.5]	-	[6.6]	[7.9]	-

¹ Newly listed varieties (Y1/SY1) have results from three years using approximately 2 kgs breeders' seed. Thereafter commercial seed is used in RL trials.

² 31 trials were drilled and had data collected over the 3 years; 25 of these trials were harvested.

³ Yields based on an average plant population of 101,100 plants/ha in these trials. Differences in adjusted tonnes of less than 3.4% should be treated with reserve.

							NEW				NEW	
ASLAN	MORGAN	MAGPIE	BTS 3610	ST TWEED	BUTTON	OSPREY	SMART UMA KWS	GENEROZA KWS	BTS SMART9485	SMART VESNICA KWS	SMART NELDA KWS	MARUSCHA KWS
Y1	Y4	Y2	Y4	SY2	Y4	Y3	SY1	SY1	SY4	SY3	SY1	SY5
-	-	-	-	V	BCN	AYPR	ALS	V	ALS	ALS	ALS/BCN	V
97.3	96.8	96.7	96.6	96.6	95.4	94.9	95.3	92.6	91.6	91.1	89.5	87.3
97.3	96.8	96.7	96.6	96.6	95.4	94.9	95.3	92.6	91.6	91.1	89.5	87.3
97.1	96.1	96.2	96.1	96.5	95.7	94.4	94.3	90.2	93	90	86.4	86.7
16.7	16.8	16.7	16.8	16.7	16.6	16.7	17.1	17.1	16.4	16.9	17.2	16.8
	X		X				X	X	X	X	X	X
1541	5683	2899	4395	1851	3093	2690	3,325	8099	2767	2097	1218	6586
0	33	33	19	57	9	21	14	14	0	0	14	26
100.8	100.7	100.4	98.9	96.3	98.8	100.0	96.9	95.4	94.6	100.9	97.4	98.2
[4.3]	4.1	4.2	6.0	5.1	5.1	4.5	[6.6]	[7.4]	5.6	6.3	[6.5]	6.4
[5.8]	4.1	4.7	5.5	6.1	5.3	4.6	[6.2]	[5.5]	6.5	5.3	[5.8]	3.2
-	[7.4]	[8.2]	[7.7]	[8]	[6.8]	[7.9]	[6.6]	-	[5.2]	[7.5]	-	[8.6]

⁴ The ratings from normal sowings are applicable for sowing after mid-March in most seasons.

⁵ Cercospora ratings should be treated with caution with no available data in 2022.

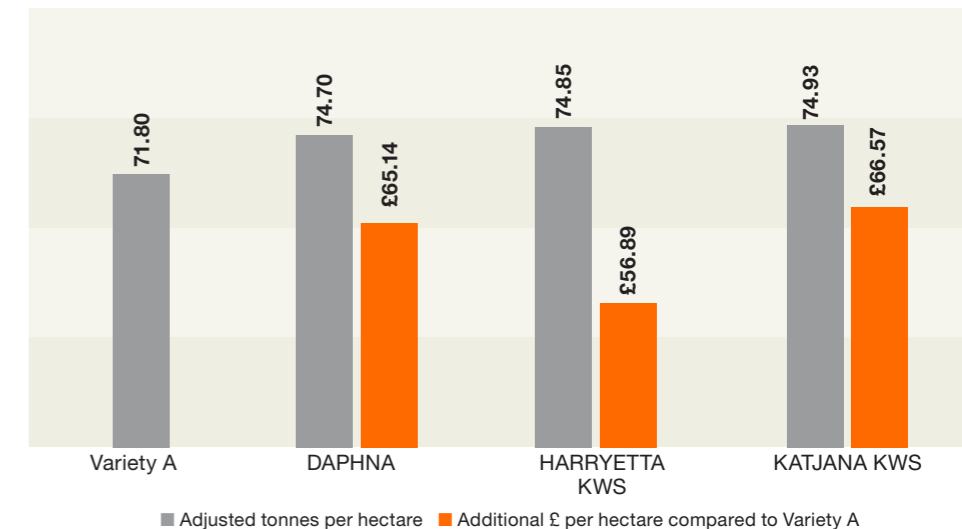
Overview of varieties and resistances

	NEW FOR 2026 NEW	Rhizomania Protect	Nematode Protect	Virus Yellowings Protect	CR+	CONVISO® SMART	INITIOEarly-Power	Suitable for early drilling
KATJANA KWS		✓	✓				✓	✓
HARRYETTA KWS		✓	✓				✓	✓
DAPHNA		✓	✓				✓	✓
CHYMA KWS		✓			✓		✓	
JOSEPHINA KWS		✓					✓	✓
SMART UMA KWS		✓				✓	✓	
GENEROSA KWS	✓	✓		✓			✓	
SMART VESNICA KWS		✓				✓	✓	
SMART NELDA KWS	✓	✓	✓			✓	✓	
MARUSCHA KWS		✓		✓			✓	

DID YOU KNOW?

KWS has over 40 sites with observational strip trials or whole field demonstrations of current and new varieties and products in 2025.

Margin Over Seed Cost



Seed cost Variety A: £228.00 (£196.00 per unit x 1.2 units/ha)

Seed cost DAPHNA: £286.38 (£238.65 per unit x 1.2 units/ha)

Seed cost HARRYETTA KWS: £299.58 (£249.65 per unit x 1.2 units/ha)

Seed cost KATJANA KWS: £292.38 (£243.65 per unit x 1.2 units/ha)

Assumed beet price: £33.00 per tonne

75 t/ha used as base yield. Varieties that yield more than 100% of controls do yield more than 75 t/ha in this example.

Source: KWS calculations May 2025.



INITIO EarlyPower

The initial spark for better growth

#KWSINITIO

INITIO EarlyPower The new, efficient seed treatment technology.

INITIO EarlyPower builds on the success of our EPD 2.0 technology.

We have combined two new biological products to partner with EPD 2.0, to improve the early development of plants. KWS have partnered with 3 external companies to allow these new technologies to be tailored to the requirements of specifically sugar beet plant growth.

These innovative additions aid the plants development for longer into the season than the benefits offered solely of EPD 2.0.



SPA
Stress Protection Agent



A consortium of 6 defined bacterial strains, selected for their beneficial effects on sugar beet

- Strengthen rooting systems
- Improved early nutrient uptake



AgRHO®
S-Boost



Biobased polymers from plant extracts

- Improved tolerances to biotic and abiotic stresses; improving seed germination, promoting water and nutrient uptake, mitigating drought effect

**More resilient and
robust plants**



Supports germination under dry conditions

Both the living organisms and the biobased polymers are applied on to the seed, before the pellet. This allows both aspects to be well placed to either colonise around the seedling roots after germination or to favour water absorption.

INITIO EarlyPower in the UK

The benefits of SPA in controlled conditions.

The benefits of a biostimulation package are best seen when the plants are stressed, rather than being in a more ideal environment. The UK springs are becoming variable, the past few years are ideal examples and we have no way to foresee what the next spring will bring. INITIO EarlyPower will help early vigour in many situations where plants have struggled.

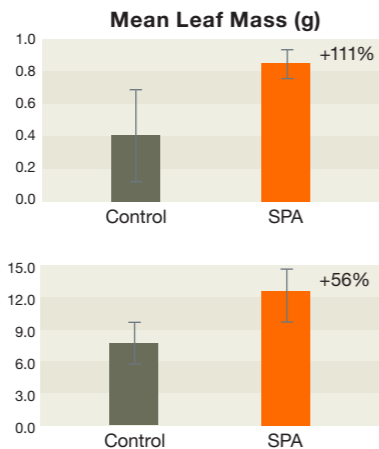
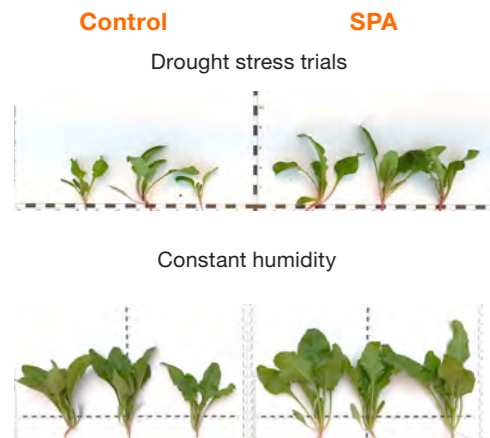


Figure: Assessment of early plant development without seed treatment (control) and with biostimulant, in greenhouse after 41 days at appr. 14-18°C under different soil moisture conditions.



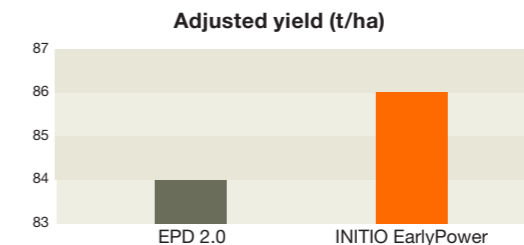
UK field trials with INITIO EarlyPower.

Multiple trials have shown INITIO EarlyPower to emerge faster than EPD 2.0. The average period from sowing to 100% emergence was 29 days. To help with getting the best possible yielding crop, sugar beet growth wants to be as quick as possible. As solar radiation increases in the spring and summer months you need a quickly emerging and vigorous plant to intercept as much solar radiation as possible.

	Speed of emergence – plants per trial plot			
	25%	50%	75%	100%
EPD 2.0	47.3	86.8	129.4	151.6
INITIO EarlyPower	49.6	90.3	131.8	152.3
% increase over EPD 2.0	+4.9	+4.1	+1.8	+0.5



Source: Independently managed and analysed replicated trial data from 6 sites in 2023



Yield increase over EPD 2.0.

INITIO EarlyPower has shown an outstanding 2.4% yield increase over EPD 2.0 - This equates to nearly 2t/ha more for a grower currently with 75t/ha.

Source: Independently managed and analysed replicated trial data from 6 sites in 2023

“The introduction of INITIO provides growers with improved germination and stress tolerance, giving a phenomenal opportunity to improve their beet performance paired with KWS varieties.”

Unleash the Power of Weed Control



CONVISO® is a registered trademark of Bayer.

Empowering Agriculture

CONVISO® SMART represents the innovative fusion of SMART KWS Seeds with Bayer's advanced CONVISO® Herbicide.

Revolutionise sugar beet farming with **CONVISO® SMART**: advanced herbicide-tolerant KWS varieties paired with CONVISO® ONE, a targeted ALS herbicide. With effective weed control, fewer applications, and enhanced sustainability, it's trusted in 30+ countries.

www.kws.com



INTEGRATED RESISTANCE MANAGEMENT

Rotation is the key!

Reduce the risk of resistance by alternating herbicides with different modes of action in your crop rotation. Efficient weed management is in your hands: choose the best strategies according to the weed population in your fields.

Chemicals



Use herbicides with different modes of action.

Maximise herbicidal efficacy with:

Use the full rate.

Proper timing of application.

Optimum application conditions.

Avoid using ALS herbicides in your rotation after growing CONVISO® SMART varieties.

Cultural



Make a diversified rotation including spring and autumn crops.

Sow cover crops, as green fertilisation, fix N, reduce weeds and nematodes.

Have a competitive crop, with adequate density and good establishment.



CONVISO® ONE can now be tank mixed with selected other active ingredients. Please read the product label or refer to Bayer's website for the most recent label changes.

STEWARDSHIP PRINCIPLES

The three key principles of stewardship for CONVISO® SMART weed control system for sugar beet are:

- To prevent seed return – minimising the weed seed bank
- To protect the Mode of Action – retaining the use of the active ingredient
- To ensure accurate use of the system – reducing resistance risk

STEWARDSHIP PROGRAMME

Users and advisors of the CONVISO® SMART system will need to manage and record activities to the Stewardship Principles.

1. Traceability of CONVISO® SMART sugar beet

Record the location and variety to ensure the crop can be managed effectively (e.g. correct herbicide applications, following crop choice etc.)

2. Control of bolters and groundkeepers

Prevention of beet seed return to prevent herbicide tolerant weed beet in following and/or subsequent crops. This may include but not limited to ploughing after the sugar beet crop and using hormone based herbicides.

3. Correct use of CONVISO® One herbicide

Following the label recommendations to maximise the efficacy of CONVISO® SMART.

4. Actions to minimise risk of weed resistance

CONVISO® SMART should be used as a weed control tool across the whole rotation along with other control methods to reduce resistance risk (e.g. choice of rotation, alternative Modes of Action etc.).

5. Keep sufficient records

Record actions taken to demonstrate responsible use of CONVISO® SMART – particularly the points above.

6. Provide information to users

Giving all users and operators suitable and sufficient information to maximise the efficacy of CONVISO® SMART.



CONVISO®
SMART

HOW TO APPLY CONVISO® ONE CORRECTLY

Standard recommendation

- Maximum yearly dose rate 1.0 L/ha as a single application
- Registered application window: Expanded cotyledon - 8 true leaves of sugar beet
- Apply using a pressure of 2.5 - 3.0 bar and a spray quality of fine to medium (BCPC category)
- Correct application timing: max. 4 true leaves of fat hen
- If no fat hen is in the field: apply when the first plants of other weed species reach max. 4 true leaf stage (BBCH 14)



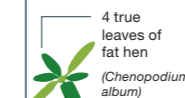
Aiming for two to four true leaves of the fat hen



! Always follow the label recommendations of CONVISO® ONE.

single application

1.0 L/ha
CONVISO® ONE





The next step in performance with CONVISO® SMART



CONVISO® SMART VARIETIES

Get the Power with SMART UMA KWS

Highest yielding SMART variety

Excellent canopy health

For use as part of the CONVISO® SMART weed control system for sugar beet

SMART UMA KWS continues to offer growers a large step forwards in yield, compared to older SMART varieties. When used with the dedicated CONVISO® ONE herbicide, SMART UMA KWS will deliver yields above classical control varieties!

With below average normal sown bolters and a disease profile which scores above average for the major 3 diseases. SMART UMA KWS is a variety which will give growers peace of mind.



DID YOU KNOW?

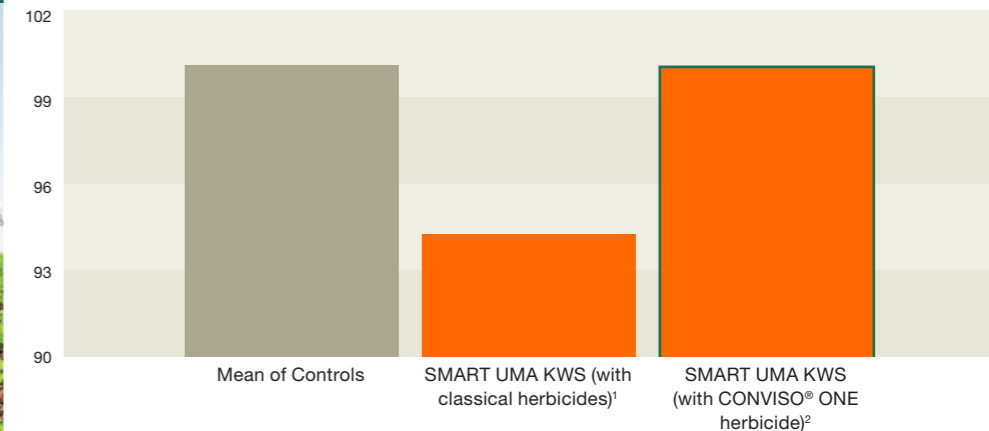
KWS will complete replicated plot trials at 4 locations in 2025 to measure the yield benefit of using the CONVISO® ONE herbicide with SMART KWS varieties.



SMART UMA KWS with a single application of 1 x 1L/Ha of CONVISO® ONE

Improved yield through better crop safety and weed control.

Adjusted tonnes (% of controls)



Source: BBRO Recommended List of Sugar Beet Varieties 2026 (based on trials from 2022 – 2024) using classical herbicides; 2 includes 5.95% yield benefit from using CONVISO® ONE measured in CONVISO® SMART System Trials, 2018 – 2020 conducted by KWS UK (plots harvested and analysed by BBRO).



Proven SMART performance

conviso
SMART



CONVISO® SMART VARIETIES

Get the Power with **SMART VESNICA KWS**

High yielding herbicide tolerant variety

Good tolerance to Rust and Cercospora

For use as part of the CONVISO® SMART weed control system for sugar beet

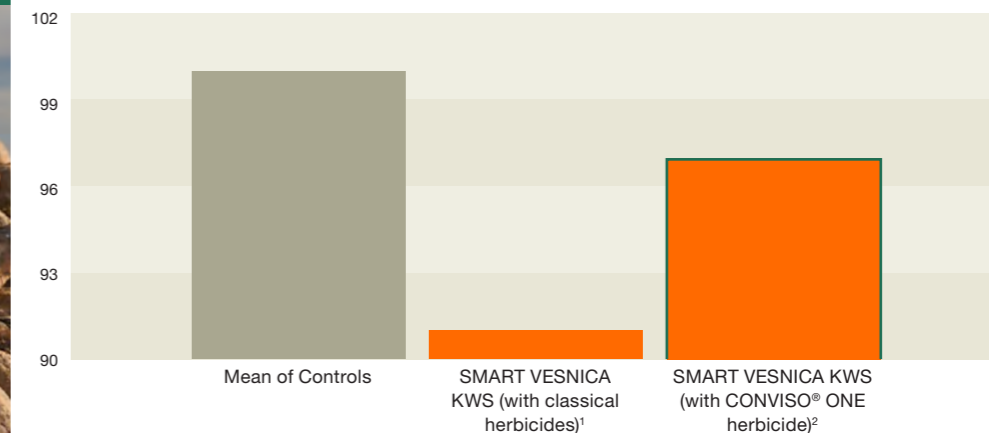
After a warm welcome by growers in 2024, SMART VESNICA KWS continues to offer a range of attractive benefits to growers. When used with the dedicated CONVISO® ONE herbicide, SMART VESNICA KWS will deliver yields close to controls.



SMART VESNICA KWS with a single application of 1 x 1L/Ha of CONVISO® ONE

Improved yield through better crop safety and weed control.

Adjusted tonnes (% of controls)



Source: BBRO Recommended List of Sugar Beet Varieties 2026 (based on trials from 2022 – 2024) using classical herbicides; 2 includes 5.95% yield benefit from using CONVISO® ONE measured in CONVISO® SMART System Trials, 2018 – 2020 conducted by KWS UK (plots harvested and analysed by BBRO).



NEW

The evolution of breeding solutions from KWS



4 Roots of SMART NELDA KWS on the left and 4 roots of SMART RIXTA on the right.
Source: KWS UK

CONVISO® SMART VARIETIES

Get the Power with SMART NELDA KWS

- Tolerance to BCN
- Herbicide tolerant variety
- For use as part of the CONVISO® SMART system

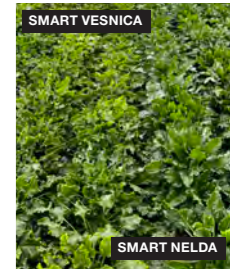
New for sowing in 2026, SMART NELDA offers growers an exciting opportunity to use the CONVISO® SMART system with the added benefit of beet cyst nematode tolerance. Where the nematode populations associated with beet being grown for a long time in a tight rotation exist, SMART NELDA KWS can help solve this issue.



Improved yield with BCN tolerance

Improved yield through better crop safety and weed control.

The image on the right shows SMART NELDA (right) vs. SMART VESNICA (left) - UK Observation field, Suffolk, 2023.



During 2023 KWS held CONVISO® SMART observational trials on a field with a BCN population. Results from the hand digs can be seen below. Note the higher roots weights and sugar content. Under infected conditions the yield protection offered by the tolerance is expected to significantly outperform a non tolerant SMART variety.

	Plant population (000's/ha)	Sugar percentage	Average weight of 10 roots (kg)	Yield estimation (Adjusted t/ha)	% decrease from SMART NELDA KWS
SMART NELDA KWS	105	16.3	9.5	99	
SMART UMA KWS	108	16.1	5.6	58	-41
SMART RIXTA KWS	122	15.9	6.5	77	-22
SMART VESNICA KWS	116	15.4	7.7	82	-17

Source: CONVISO® SMART observational trials, Suffolk; KWS, 2023

**GENEROSA
KWS**

NEW

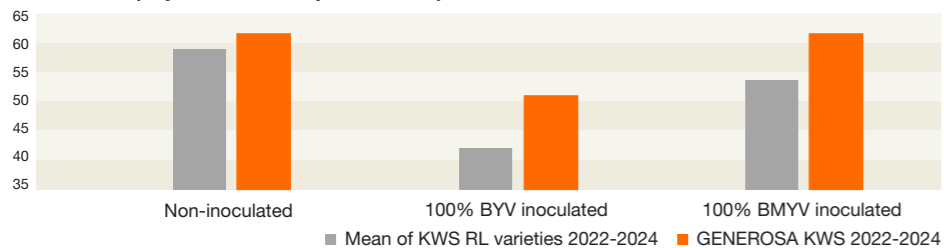
The newest BMYV tolerant variety

CLASSICAL VARIETIES – VIRUS YELLOWS

- Strong tolerance to BMYV
- Good disease scores
- Best sown from mid - March onwards

New this year, GENEROSA KWS joins MARUSCHA KWS as our second virus-tolerant variety. With improved yields and strong Rust tolerance, it offers a powerful tool against virus yellows.

GENEROSA KWS yield performance in 3 years of replicated UK trials with 100% infection (adjusted tonnes per hectare)



Source: KWS UK replicated VY plot trials from 2022-2024: 100% inoculated trials.

DID YOU KNOW?

KWS has conducted Virus Yellows trials in the UK since 2017 and in 2022 alone used 400,000 aphids to inoculate sugar beet plots at three locations.

**MARUSCHA
KWS**

A visibly greener canopy

- Competitive yields
- Strong tolerance to BMYV
- Best drilled from mid-March onwards

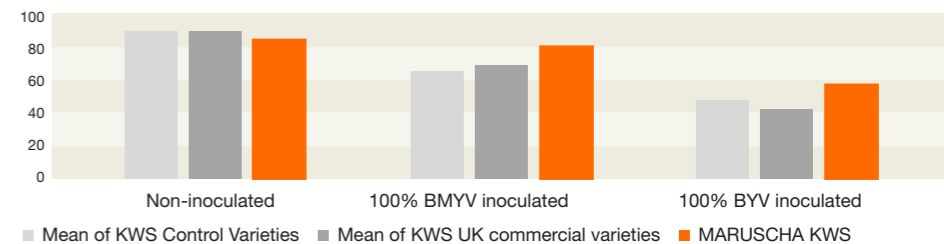
MARUSCHA KWS is the first generation of KWS Virus Yellows tolerant sugar beet and shows excellent tolerance to Beet Mild Yellowing Virus (BMV) and a competitive response to Beet Yellowing Virus (BYV).



MARUSCHA KWS strip trials in field 2022. Source: KWS

MARUSCHA KWS yield performance in UK trials (adjusted tonnes per hectare)

Note: BMV results are 3 year mean from 2018-20 and BYV is 2019 only so should be treated with reserve



Source: KWS UK replicated VY plot trials from 2018-2020: 100% inoculated trials.

Beet Cyst Nematode – a small pest with a huge impact

CLASSICAL VARIETIES – BCN

Yield losses of 30 – 60% may be possible

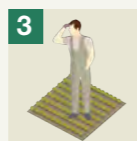
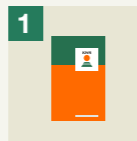
- The first 10% often show no visible symptoms

Typical Symptoms

- Patches of wilting leaves under midday sun
- Stunted and deformed root growth
- Roots with a “bearded appearance”
- Visible white or brown cysts on root hairs

WHAT TO DO TO PROTECT AGAINST BCN

- 1. Choose a tolerant variety**
There are no yield penalties with KWS
- 2. Use a wide crop rotation**
Non-host plants reduce BCN by c. 40% per year
- 3. Test**
Regular soil and crop checks for BCN



DID YOU KNOW?

KWS tests potential trial fields before selection to ensure they are free from BCN.



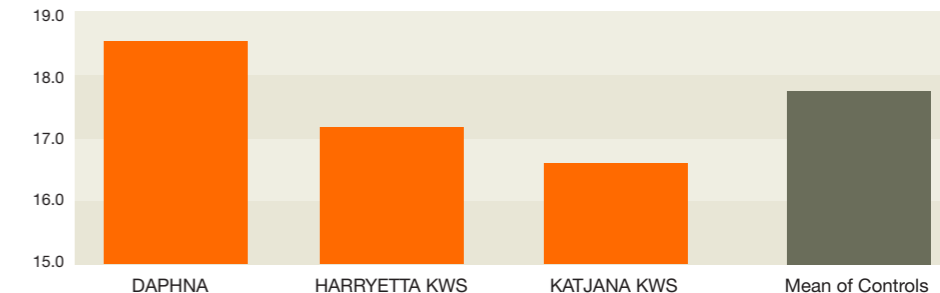
Proven performance across many years

- Still a very popular variety after 9 years!
- Consistent on farm performance
- Good canopy health

For 9 years DAPHNA has delivered excellent yields in both RL trials and more importantly, on farms. DAPHNA has again set the benchmark for BCN protection without a significant yield penalty.

With very low early sown bolters and a good canopy late into the campaign DAPHNA is a great choice for growers wanting to spread their workload through the season. Through the past 9 years DAPHNA has proven to work across many farms and varying locations.

Total Agronomic Merit*



Source: BBRO Recommended List of Sugar Beet Varieties 2026 (based on trials from 2022 – 2024)

*Total Agronomic Merit is the total sum of all the 3 disease scores given to varieties



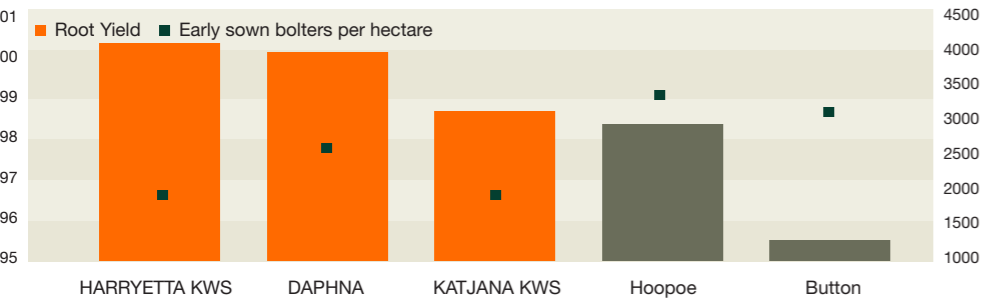
Leading the pack for BCN tolerant varieties

CLASSICAL VARIETIES – BCN

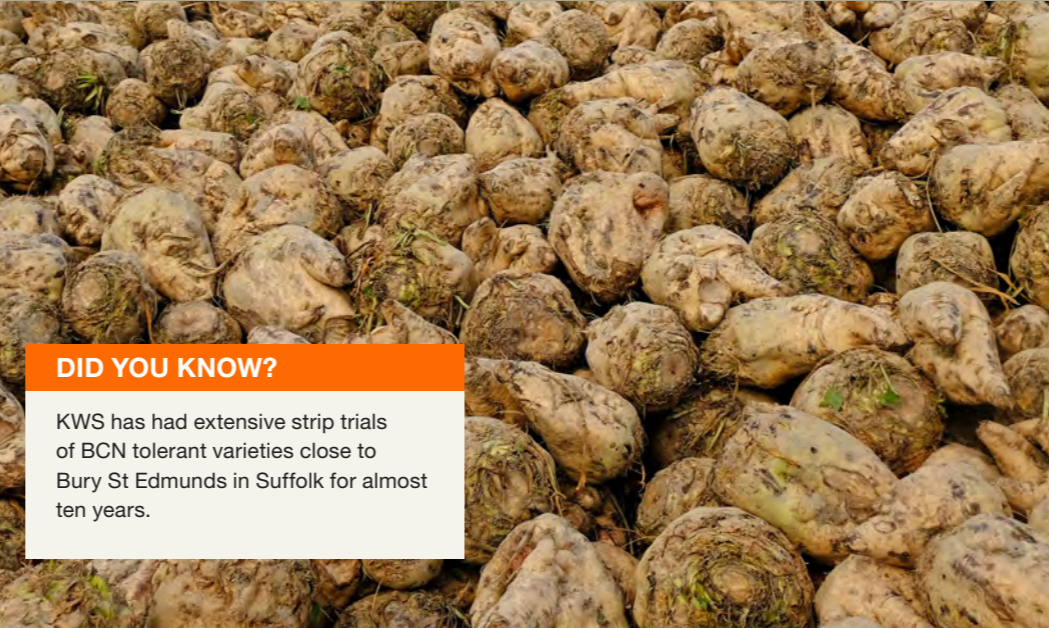
- Big roots with low early bolters
- Consistent performance on farms
- Higher than average ratings for powdery mildew and cercospora

With low bolters in both the normal and early sown windows combined with very high yields HARRYETTA KWS will again be a highly sought after variety for 2026.

Root yield and ESB scores



Source: BBRO Recommended List of Sugar Beet Varieties 2026 (based on trials from 2022 – 2024)



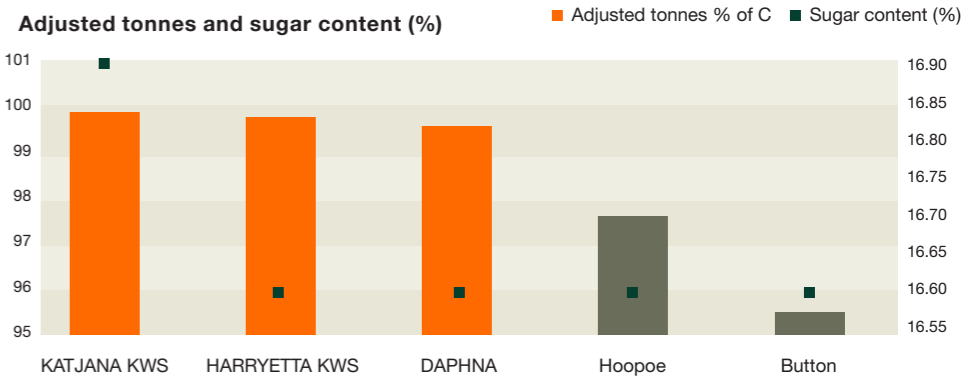
DID YOU KNOW?
KWS has had extensive strip trials of BCN tolerant varieties close to Bury St Edmunds in Suffolk for almost ten years.



BCN tolerance with high yield and low bolters

- Top 3 yield performer
- BCN tolerant
- Low bolting

Adjusted tonnes and sugar content (%)



Source: BBRO Recommended List of Sugar Beet Varieties 2026 (based on trials from 2022 – 2024)

After 5 years KATJANA has gained a loyal following by growers. It offers a good combination of high yields paired with BCN tolerance.

It is a well rounded variety, offering growers the ability to be sown before mid-March and the highest sugars, in the BCN segment.

**JOSEPHINA
KWS**



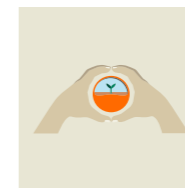
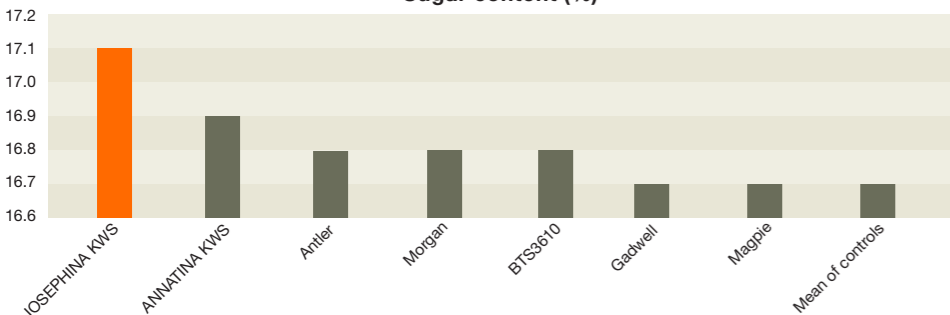
The sweetest choice for early sowing

CLASSICAL VARIETIES – RHIZOMANIA

- The lowest early sown bolters available
- Very high sugar content
- Above average Rust and Cercospora ratings

With the lowest early-sown bolting number, JOSEPHINA KWS enables an earlier start. Its top sugar content helps offset longer factory hauls, while strong Rust and Cercospora resistance support later harvesting for maximum returns.

Sugar content (%)



KWS Beet Seed Service

Your partner if you need to re-sow.

The Beet Seed Service is available to all growers of KWS beet varieties.

The Principle of the Beet Seed Service.

Should you need to re-sow your beet crop, we will offer the replacement seed at 50% of the initial sale price.

For example, if you were to spend £200 per unit on KWS INITIO-treated seed and needed to re-sow, the seed cost for re-sowing would be £100 per unit.



To register for the Beet Seed Service scan the QR Code or visit www.beetseedservice-uk.com

Replacement seed offered to growers through KWS Beet Seed Service must be re-sown in the year it is provided. Terms and conditions apply. Please visit www.kws-uk.com for full details.

CR+

A revolution in Cercospora control

Cercospora is a challenging disease. CR+ offers a tool to get back in control.

Cercospora Leaf Spot is by far the most destructive disease of sugar beet – by reducing yield by up to 50%. Furthermore cercospora leads to reduced processing quality of roots, reducing productivity.

Cercospora is of growing concern in the UK. In the 2020/21 campaign we saw devastating effects in the Wisington factory area, paired with bad Virus Yellows. In the 23/24 campaign albeit there was no bad outbreak of cercospora, patches of the disease were easy to find in fields, across a large acreage of the beet growing area. This shows the disease has spread and this will unfortunately be providing an inoculum bank for future years.

With the growing risks, and concerns about cercospora in the UK we have introduced into the UK our CR+ trait.

This has been commercially available on the continent for several years already and has proven to be a huge success in their high risks areas.



Cercospora Protection



Yield Performance

DID YOU KNOW?

CR+ and represents the culmination of a 20-year effort by KWS. But the project does not stop there! The release of CR+ represents the latest development in a long line of innovative sugar beet solutions from KWS.



CR+

More than just one source!

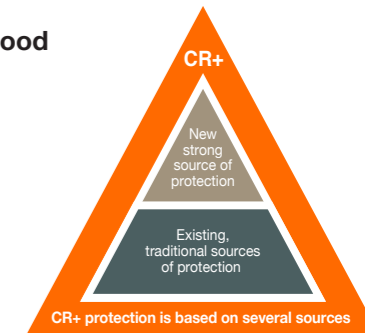
The advantages of different sources: CR+ varieties combine new and existing sources of protection which leads to the new level of Cercospora protection.

Fungicide strategies are an integral part of a good disease management.

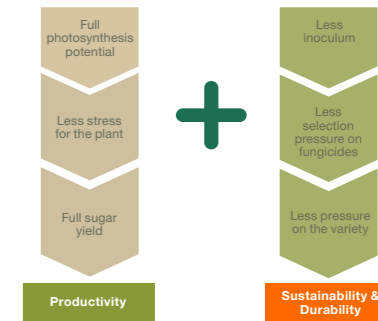
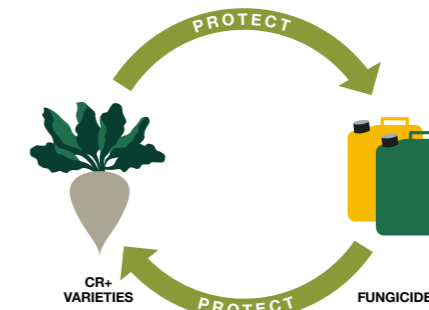
GREEN LEAVES UNTIL HARVEST!



To ensure the longevity of CR+ in the UK at least one efficacious application of a fungicide with a label claim of cercospora control must be used!



Cercospora is a challenging disease. CR+ offers a tool to get back control.





The cleanest variety available

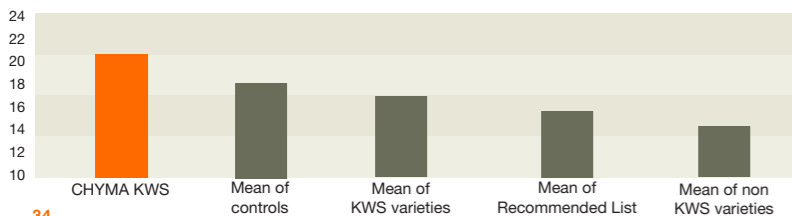
CLASSICAL VARIETIES – RHIZOMANIA

- Outstanding tolerance to cercospora
- High yields and sugar content
- Great tolerance to rust and mildew too

This is the first variety into the UK to have our CR+ trait. This offers unrivalled protection to the devastating disease, cercospora.

As a variety CHYMA KWS is very attractive, offering high yields and a high sugar content. It has the highest untreated yield on the recommended list. The sum of its ratings for rust, powdery mildew and cercospora are the highest in Recommended List trials, 20.1 out of 27.

Total Agronomic Merit (*)



*Total Agronomic Merit is the total sum of all the 3 disease scores given to varieties

Source: BBRO Recommended List of Sugar Beet Varieties 2026 (based on trials from 2022 – 2024)

DID YOU KNOW?

In 2023 KWS' AgroService and Trial Teams pioneered the first inoculated cercospora trials, specifically looking at the disease in the UK conditions.

Cercospora trials within the UK

During 2023 KWS UK undertook trial work looking at the yield uplift of CHYMA KWS compared to a standard KWS variety, without CR+. To ensure a good disease pressure the trial was inoculated with infected leaves harvested from previous seasons. The trial was also irrigated in August and September to ensure the disease could thrive in the plot. A two spray fungicide programme was used.

The highlights of the trial include:

- CHYMA KWS remained very clean, no visual Cercospora Leaf Spots were seen
- A significantly greener leaf area +17.8% (difference generated by image analysis software analysing green pixels, avoids human bias)
- Visual leaf ratings for cercospora gave CHYMA KWS a score of 9 compared to the control only 4.9 (1-9 scale, 9 being clean from cercospora)

The results of CHYMA KWS and the control from the cercospora trial are shown below. The yield uplift of CHYMA KWS where it is has been exposed to cercospora inoculum has shown how valuable the trait is.

	Innoculated and two fungicides (adjusted t/ha)	
	2023	2024
CHYMA KWS	122.2	105.9
Control KWS Variety	110.61	96.3
Yield uplift	11.6%	9.6%
Margin increase (£40 and £33/t)	£464	£318

Source: Yield results from the KWS UK cercospora trial 2023 and 2024.



Plots treated with fungicides twice, **CHYMA KWS** on the right. A significantly greener and more vigorous canopy.

Source: KWS UK cercospora trial, Cambridgeshire, 2023.

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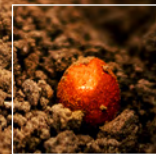
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