

# Seed Information Pack

2024/25



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# Seed Order Process

Seed orders will be processed on a first-come, first-served basis. When stocks of a particular variety and pellet have sold out, the variety will be withdrawn from the online seed application form.

To increase the transparency an indication of seed volumes have been displayed. These volumes are based on the breeders' yield and recovery expectation from the seed harvest. Due to this, if more volume is released to the UK, it could be the case that a sold-out variety become available again later in the year.

Seed orders can be entered via My British Sugar (if you administer your contract & seed order online)

or on the official paper Seed Order Form. Paper forms can be emailed back as a scan or photo or sent back by post.

Seed orders that arrive in the post are processed in the strict order in which they arrive.

Growers ordering their seed by post may not get their first choice of variety if stocks have run out when the order is received and processed. In this instance, you will be informed by British Sugar Farm Business Support Team and will be required to make an alternative selection.

Seed orders will NOT be accepted by telephone.

Seed is non-returnable.

## Pellet and Treatment

For 2024, additional seed technology choices are being offered to growers following BBRO trials. These are listed on page 3 with detailed information on page 4. No statistically significant differences in yield were measured in BBRO run trials.

This year the Seed Working Group has had to place both a variety and pellet order with the seed breeders to ensure timely delivery of seed into the UK.



# Seed Pricing

Seed prices are negotiated and agreed annually with suppliers by the joint British Sugar & NFU Sugar Seed Working Group.

British Sugar does not make a margin from the sale of seed. The seed account is audited by NFU Sugar. NFU Sugar also independently negotiates pelleting prices with Germain's.

SMART VESNICA KWS is on the 2024 Recommended List and can be purchased direct from KWS-preferred distributors. British Sugar will also accept SMART RIXTA KWS for deliveries in 2024, purchased direct from KWS-preferred distributors.

This has been allowed for 2024 only in response to the exceptional and extenuating circumstances caused by the catastrophic flooding event Italy experienced earlier this year, and the subsequent impact on seed crops.

Seed prices quoted in this pack are for payment in May 2024.

Growers wishing to have their seed costs deducted from their beet accounts in September 2024 will be levied a fixed charge of 5% of the invoice value.

The industry has applied for an emergency authorisation to use Cruiser SB on the 2024 crop. Once the emergency authorisation outcome and details of any associated stewardship programme are known, the Seed screen in My British Sugar will reopen unless you confirm at ordering that you do not wish to have the option to use Cruiser SB, even if granted.

The cost of Cruiser SB if permitted, will be in addition to the prices displayed on page 4.



# Seed Price List

Colour code	BCN	AYPR	V	ALS
As claimed by the Breeder	Beet cyst nematode (BCN) tolerant	Enhanced resistance genes to the AYPR	Tolerance to some of the yellowing viruses	Tolerant to specific ALS herbicides (Conviso)

Varieties	Trait	Germaines Enrich 200	Germaines Enrich 200 + Force	Germaines Enrich 300 + Force	EPD2.0 + Force	UltraPro + Force	SV1 + Force*	Total estimated units available
BTS1915			£229.05	£243.14		£208.84		31765
Harryetta KWS	BCN		£254.05	£268.14	£226.89			4400
Katjana KWS	BCN		£246.05	£260.14	£224.89			10000
Daphna	BCN		£241.05	£255.14	£219.89			4000
Annatina KWS			£234.05	£248.14	£204.64			9050
Wren *			£216.05	£230.14			£207.84	10000
Osprey *	AYPR		£221.05	£235.14			£212.84	10000
BTS1140			£211.05	£225.14				3500
BTS3610			£223.05	£237.14				5700
Morgan			£208.93	£223.02				3800
Button	BCN	£189.08	£208.93	£223.02				2900
Adder			£212.05	£226.14				775
BTS3020			£223.05	£237.14				3000
Tawny			£212.05	£226.14				750
Stewart			£207.26	£221.35				580
BTS 9485 SMART** & CONVISO® ONE (sold as a combined package)	ALS					£413.00 & £68.92/Lt Inc. VAT		2200
Maruscha KWS *	V		£266.20		£245.04			300

## Important Comments

\* Varieties/pellet combinations highlighted in RED will **NOT** have the option to have Cruiser SB applied even if an Emergency Authorisation is granted

\*\* Growers ordering BTS Smart 9485 are required to adhere to the stewardship programme which will be provided alongside the order. The cost of 1.2u/Ha and 1.0L/Ha of CONVISO® ONE will be combined package price of £564.52/Ha Inc. VAT

# Seed Technology

## Profiles supplied by their respective companies

### Xbeet enrich 200

- Xbeet prime promotes rapid and uniform germination
- Proven lightweight pellet developed for UK planting systems.
- Elicitor triggers plants natural defences.
- Germains commissioned trials indicate Xbeet Enrich 200 offers an average 1.4% yield increase over the Xbeet Enrich 100 treatment

### Xbeet enrich 300

- Optimised Xbeet prime developed to promote rapid and uniform germination
- Proven lightweight pellet developed for UK planting systems.
- Unique bio-stimulant and nutrient package to sustain seedling growth under stressful conditions Germains commissioned trials indicate Xbeet Enrich 300 offers 1.8% yield increase over the Xbeet Enrich 200

### EPD2.0

EPD2.0 is a complete system approach which combines KWS specific seed preparation methods and seed coating components. EPD2.0 does not contain any biological components such as elicitors or stimulants. More information can be found at <https://www.kws.com/gb/en/consulting/seeds/seed-quality/sugarbeet/>

### SESVANDERHAVE SV1

SESVANDERHAVES seed is treated with proprietary technology; primed, pelleted and coated in SV's distinctive blue pellets at its own factory in Belgium. The UK joins 52 other countries already benefiting from the integration and tuning of seed processing with all phases of seed production; delivering proven quality and synergy for growers.

### UltiPro

UltiPro is a seed activation or priming technology, developed by Betaseed with over 850k units sold worldwide. UltiPro technology improves field germination and supports fast and steady field emergence, development, and canopy closure. This is the base for maximum yield!



## Seed varieties & performance

The 2024 Recommended List of Sugar Beet Varieties accompanies this seed pack. Further information can be found at [www.bbroy.co.uk/sugar-beet-varieties/recommended-list/](http://www.bbroy.co.uk/sugar-beet-varieties/recommended-list/)

## Seed treatments

You are encouraged to follow BBRO advice (below) and select the appropriate seed treatment for your needs.

## Standard fungicides

All seed is treated with Tachigaren (Hymexazol) at a rate of 14.7g ai/unit. This protects the seedling from seed and soil-borne diseases such as Damping Off and Blackleg.

## Additional insecticides

FORCE® ST contains tefluthrin, a soil acting pyrethroid insecticide which reduces the damage caused by a range of pests which attack sugar beet seedlings. The pests involved include: springtails, symphylids, millipedes and pygmy beetle. There is no control of wireworm or aphids/virus vectors by FORCE® ST

FORCE® ST is recommended to ensure sugar beet emergence is improved by reducing damage from any of these pests.

## Seed specification

All seed is supplied in one-unit sealed boxes. There are four units (four boxes) per outer container.

Number of seeds per unit	100,000 +/- 3%
Grading	3.50-4.75mm
Minimum laboratory monogermity	92.5%
Minimum laboratory germination	90%

## Seed rates


Seed rates should be set to provide 100,000 plants per hectare, taking into account the estimated plant establishment.


Field establishment rates rarely exceed 80% and are often significantly reduced by poor seed beds, adverse weather conditions and loss to pests or disease.

Use the table below to guide your seed rate:

Establishment - 000's plant/ha based on 50cm row widths							
Seed spacing (cm)	14	15	16	17	18	19	20
Seed units per ha (one unit = 100,000 seeds)	1.43	1.33	1.25	1.18	1.11	1.05	1
90%	129	120	113	106	100	95	90
80%	114	107	100	94	89	84	80
70%	100	93	88	82	78	74	70
60%	86	80	75	71	67	63	60
50%	71	67	63	59	56	53	50
40%	57	53	50	47	44	42	40

Establishment - 000's plant/ha based on 45cm row widths								
Seed spacing (cm)	14	15	16	17	18	19	20	21
Seed units per ha (one unit = 100,000 seeds)	1.59	1.48	1.39	1.31	1.23	1.17	1.11	1.06
90%	143	133	125	118	110	105	100	95
80%	127	118	111	105	98	94	89	85
70%	111	104	97	92	86	82	78	74
60%	95	88	83	79	74	70	67	64
50%	79	74	69	65	61	58	55	53
40%	64	59	56	52	49	47	44	42

 Plant populations above optimal requirements that can still produce maximum yields but not maximum profit

 Optimum plant populations (within 5% of 100,000 plants per hectare)

 Plant populations below optimal requirements that may not produce maximum yield

**RECOMMENDED LIST OF SUGAR BEET VARIETIES 2024 (Based on trials from 2020-2022)**

<b>Rz1 rhizomania varieties</b>														Maruscha KWS																																					
														Smart Vesnica																																					
Status: (C) = control variety <sup>1</sup>														BTS Smart 9485		Philinea KWS																																			
AYPR/BCN/ALS/VY as claimed by the Breeder														Stewart		Tawny		Adder		BTS3020		Button		Morgan		BTS3610		Osprey		Wren		Annalina KWS		Kajana KWS		Harjeta KWS		BTS1140		Daphna		BTS1915									
CROP YIELDS		95% lsd																																																	
Adjusted tonnes % of C=100% <sup>2</sup>		100.0												3.8		103.9		101.5		99.1		102.9		101.6		100.4		99.2		98.9		98.8		98.2		98.0		98.0		97.2		97.5		94.3		94.0		89.9			
Sugar yield % of C=100% <sup>2</sup>		16.53 t/ha												3.8		103.9		101.5		99.1		102.9		101.6		100.4		99.2		98.9		98.8		98.2		98.0		97.2		97.5		94.3		94.0		89.9					
Root yield % of C=100% <sup>2</sup>		95.4 t/ha												3.5		104.5		101.8		99.5		103.8		101.2		99.3		102.4		98.5		98.4		96.3		98.4		96.4		96.4		92.6		88.6							
Sugar content %		17.2%												0.22		17.1		17.2		17.1		17.3		17.4		16.7		17.4		17.2		17.0		17.5		17.3		17.1		16.9		17.4		17.4		17.4					
BOLTERS per 100,000 plants/ha		95% lsd												99.9% lsd																																					
*X* Unsuitable for sowing BEFORE Mid March for new (2024) list														X																																					
Early sowing, before 5 March <sup>3</sup>		2,900												4,157		4,117		1,729		1,564		1,344		1,118		1,748		1,904		2,170		3,385		1,547		1,023		3,168		2,802		1,871		3,375		1,489		1,372		4,200	
Normal sowing		-												152		21		7		64		0		9		9		72		26		0		28		9		47		16		47		21		12		76			
PRE-GAPPING ESTABLISHMENT <sup>4</sup>																																																			
Control		100%												4.2		100.6		100.8		100.5		99.1		101.3		97.1		102.9		99.3		101.9		102.0		101.7		99.0		102.4		97.5		101.3		97.1					
DISEASE (1 = high leaf infection 9 = very low leaf infection) <sup>5</sup>																																																			
Rust		5.7												6.8		4.8		6.5		3.5		2.8		5.5		5.7		6.2		4.1		4.5		8.1		5.7		6.8		2.8		2.5		5.9		[7.2]		6.7			
Powdery mildew		5.0												5.1		4.9		4.5		4.6		4.9		4.8		4.8		5.2		4.0		4.7		5.2		5.0		5.1		4.0		4.6		5.7		[3.9]		2.4			
Cercospora		6.5												[6.6]		[6.8]		[6.1]		[6.3]		[6.4]		[5.9]		[6.5]		[7.6]		[6.0]		[6.3]		[7.2]		[6.5]		[7.3]		[5.5]		[6.0]		[7.0]		[8.5]					
OTHER CLAIMS																																																			
AYPR (Aggressive rhizomania)																																																			
ALS (Herbicide Tolerant)																																																			
BCN (as claimed by the Breeder)																																																			
V (as claimed by the Breeder) <sup>6</sup>																																																			
RL SYSTEM																																																			
Year first listed														2020		2017		2018		2022		2021		2022		2021		2022		2022		2022		2022		2022		2022		2022		2023		2021							
BREEDER/UK CONTACT <sup>7</sup>																																																			
Breeder																																																			
UK Agent																																																			

Mean of controls includes Kortessa KWS and Evalotta KWS which are no longer listed.

1. Newly listed varieties (VI/SYT) have results from three years using approximately 2 kg breeders' seed. Thereafter commercial seed should be used in RL trials.

2. Yields based on an average plant population of 99,000 plants/ha in these trials. Differences in adjusted tonnes of less than 3.8% should be treated with reserve.

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

4. Differences in establishment of less than 4.2% should be treated with reserve.

5. Cercospora ratings should be treated with caution as infections were low and are based on 2020 and 2021 data only.

6. Breeders claims are for tolerance to some of the yellowing viruses

7. BTS = Betased, KWS = KWS UK Ltd, LG = Limagrain UK Ltd, STR = Strube Sugar Beet UK Ltd, SV = SESVanderHave UK Ltd

8. [ ] - limited data







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