



BETASEED

**SUGAR BEET
VARIETIES 2023**

BETASEED. SIMPLY DIFFERENT.



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BTS 1915

SIGNIFICANTLY DIFFERENT

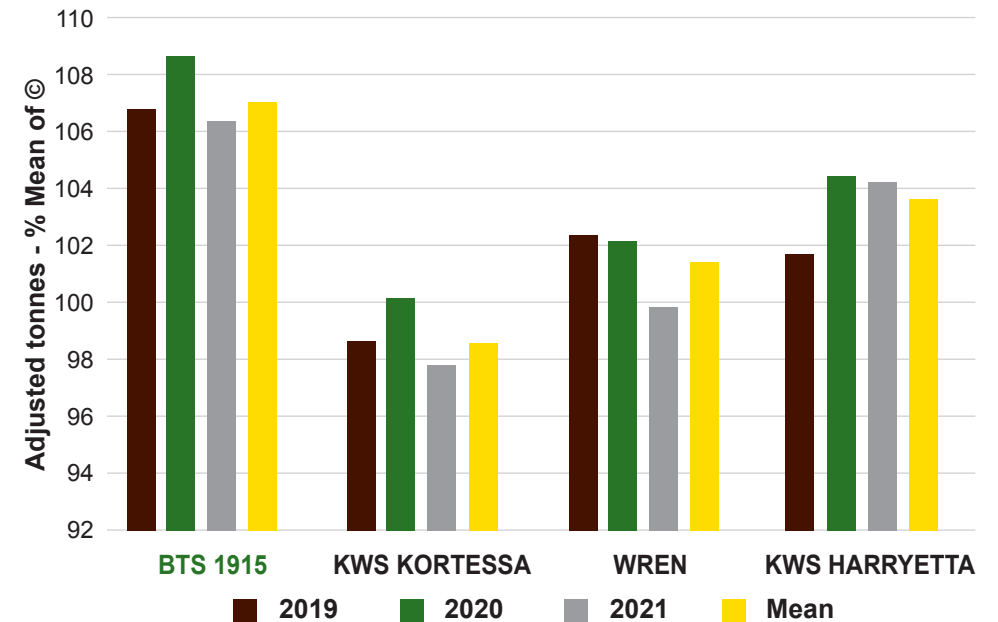
- The highest yielding variety available
- High adjusted tonnes: Treated 107.1%
Untreated 106.5%
- Consistently high seasonal yield performance
- High sugar content: 17.1%
- Good rust resistance: 7.2
- For normal and late sowing
- Rhizomania tolerant

Breeders Comment:

“BTS 1915 continues to show very high yield potential with an exceptional 3.6% yield advantage over its nearest competitor and 7.1% over the mean of the treated control on the sugar beet Recommended List. Equally impressive is its performance in untreated trials, with a respectable adjusted tonnes yield of 106.5%, 3.4% higher yielding than its nearest rival. “We normally expect to see year-on-year yield advances of 1 to 2% in yields, so BTS 1915 is something special, especially considering many other arable crop yields have plateaued. Nor is it a one-year wonder performance. These extremely high yields have been consistent over all the seasons tested in UK official trials”



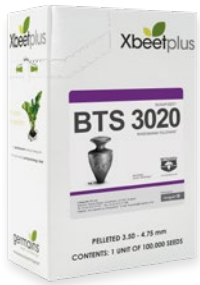
BTS 1915 - SEASONAL YIELD CONSISTENCY



Financial yield potential of a crop is a key factor in deciding which variety to choose, but increasingly important is the delivery of yield potential, as the graph above shows. BTS 1915 delivers top yield potential, as expressed in adjusted tonnes, with a very high degree of consistency, giving growers more resilience against the costs of producing a sugar beet crop.

BTS 1915 - TECHNICAL ADVICE

BTS 1915 has moderate resistance to powdery and downy mildew, plus very good rust resistance, ensuring its suitability for later harvesting dates. Sow BTS 1915 in the normal and late sowing period. This variety is unsuitable for sowing before mid-March, as indicated by the **x** on the Recommended List.



BTS 3020

THE EARLY BIRD

- Yield adjusted tonnes: Treated 100.1%
Untreated 99.4%
- Very good disease resistance
- Excellent ESB and NSB characteristics
- High sugar content - 17.4%
- For the earlier sowing opportunity
- Rhizomania tolerant

Breeders Comment:

“BTS 3020 is a variety offering high yield potential with high sugar content and provides a step forward for the earlier drilling opportunity on farm. In ESB trials sown before 5th March, BTS 3020 has a 3-year mean of 1,388 bolters per 100,000 plants, showing a consistency for bolting tolerance across all seasons tested, making it one of the most secure varieties for drilling at earlier sowing dates.

BTS 3020 offers comprehensive disease resistance - Rust (7.6) and Powdery Mildew (4.8) - important for the earlier drilling situation. Limited European Betaseed disease data suggests that BTS 3020 benefits from good Cercospora tolerance and this is supported by the limited UK 3-year data with a rating of 7.0, shown on the 2023 Recommended List.



BTS 3610

DESIRABLE ALL-ROUND PERFORMER



- High adjusted tonnes: Treated 101.6%
Untreated 101.2%
- High sugar content 17.3%
- Good disease resistance
- Good ESB and NSB characteristics
- Recommended for all sowing dates
- Rhizomania tolerant

Breeders Comment:

BTS 3610 is an exciting new variety from the successful Betaseed breeding programme, offering the key agronomic characteristics that growers look for in securing maximum yield potential on-farm.

The variety has a high sugar content, combined with a good disease resistance profile of Rust (5.9), Powdery Mildew (5.3) and Cercospora (6.6), which supports its high untreated yield of 101.2%.

These characters combined with the varieties low bolting figures – ESB (3498) and NSB (0) make BTS 3610 an attractive choice for growers and offers a robustness for the later lifting scenario.



RECOMMENDED LIST OF SUGAR BEET VARIETIES 2023

(Based on trials from 2019-2021)

Note: All data has been extracted from the 2022 BBRO Sugar Beet Recommended List, available at <https://bbro.co.uk/sugar-beet-varieties/recommended-list/> unless otherwise stated.

Rz1 RHIZOMANIA VARIETIES				Daphna	BTS 1140	Kortessa KWS	BTS 1915	Harrietta KWS	Katjana KWS	Annatina KWS	BTS 3610	Wren	Morgan	Stewart	Tawny	Evalotta KWS	Adder	BTS 3020	BTS 5770	Button	Lacewing	Philina KWS	Maruscha KWS	BTS Smart 9485	Smart Rixta KWS			
Status: (C) = control variety ¹				R(C)	R(C)	R(C)	PR3	PR1	PR2	PR1	PR1	PR2	PR1	PR1	PR1	PR3	PR1	PR2	PR2	PR1	PR3	PR3(C)	PS1	PS1	PS1			
AYPR/BCN/ALS/VY as claimed by the Breeder				BCN	-	-	-	BCN	BCN		-	-	-	-	-	-	-	-	-	-	BCN	BCN	AYPR	Virus ⁷	ALS	ALS		
CROP YIELDS		MEAN	95% Isd																									
Adjusted Tonnes % of C=100% ²		112.0 t/ha	100.0	2.5	101.5	101.1	98.7	107.1	103.5	102.3	102.1	101.6	101.3	101.3	100.7	100.4	100.3	100.3	100.1	99.8	99.2	97.3	100.2	92.1	96.0	92.1		
Sugar Yield % of C=100% ²		17.9 t/ha			101.5	101.1	98.7	107.1	103.5	102.3	102.1	101.6	101.3	101.3	100.7	100.4	100.3	100.3	100.1	99.8	99.2	97.3	100.2	92.1	96.0	92.1		
Root Yield % of C = 100% ²		104.3 t/ha			101.8	100.8	98.8	107.1	104.4	102.1	100.7	100.9	103.7	101.0	99.7	102.0	99.5	103.6	98.5	97.7	100.7	96.5	101.1	90.5	97.8	91.6		
Sugar Content %		17.1%		0.2	17.1	17.2	17.1	17.1	17.0	17.1	17.4	17.3	17.2	17.3	16.9	17.3	16.6	17.4	17.5	16.9	17.3	17.0	17.4	16.8	17.2			
BOLTERS per 100,000 plants/ha		MEAN	95% Isd	99.9% Isd																								
"X" Unsuitable for sowing BEFORE Mid March for new (2023) list				-	-	-	X	-	-	-	-	-	X	-	X	-	X	-	-	-	-	X	X	-	-			
Early Sowing, before 5 March ³		3,335/ha	4,970	6,420	3,416	3,864	3,064	6,925	2,342	2,155	4,715	3,498	3,989	5,339	2,917	5,368	4,224	5,950	1,388	1,864	1,793	2,090	6,228	7,241	2,327	4,358		
Normal Sowing		38/ha	-	117	15	107	15	37	15	0	0	0	65	34	15	15	46	15	21	15	0	34	87	75	0	37		
PRE-GAPPING ESTABLISHMENT ⁴																												
Control		100%	3.3		99.1	98.5	98.7	102.4	98.3	100.4	95.7	101.3	100.4	100.4	99.2	102.6	100.8	101.1	101.2	101.3	103.0	101.5	103.8	97.4	97.3	101.8		
DISEASE (1 = high leaf infection, 9 = very low leaf infection) ⁵																												
Rust			5.0		55	5.9	7.7	7.2	5.0	4.3	5.1	5.9	5.5	4.0	3.7	5.7	2.4	6.2	7.6	8.2	3.9	4.4	2.5	5.9	4.9	4.6		
Powdery Mildew			4.7		5.4	4.5	5.7	4.4	5.3	5.3	4.5	5.3	5.2	5.4	5.0	5.6	4.6	5.2	4.8	5.0	5.0	4.2	4.6	2.8	5.9	4.8		
Cercospora			6.9		7.1	6.1	7.3	6.6	6.3	6.6	6.0	6.6	6.6	6.6	6.1	7.4	5.4	6.5	7.0	7.1	6.9	6.8	7.0	8.0	6.0	6.4		
OTHER CLAIMS																												
AYPR (Aggressive rhizomania)					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Y	-	-	-		
ALS (Herbicide Tolerant)					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Y	Y		
BCN (as claimed by the Breeder)					Y	-	-	-	Y	Y	-	-	-	-	-	-	-	-	-	-	Y	Y	-	-	-	-		
V (as claimed by the Breeder) ⁶					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	V	-	-		
RL SYSTEM																												
Year First Listed					2017	2018	2018	2020	2022	2021	2022	2022	2021	2022	2022	2022	2020	2022	2021	2021	2022	2020	2018	2021	2022	2021		
BREEDER/UK CONTACT ⁶																												
Breeder					KWS	BTS	KWS	BTS	KWS	KWS	KWS	BTS	SV	STR	STR	SV	KWS	SV	BTS	BTS	STR	SV	KWS	KWS	BTS	KWS		
UK Agent					KWS	LG	KWS	LG	KWS	KWS	KWS	LG	SV	STR	STR	SV	KWS	SV	LG	LG	STR	SV	KWS	KWS	LG	KWS		



BTS 1140

PROVEN ON FARM

- A leading variety, popular with growers
- High adjusted tonnes: Treated 101.1%
Untreated 101.8%
- High sugar content: 17.2%
- Good disease resistance
- For normal and late sowing
- Rhizomania tolerant



BTS 5770

SAFE AND SWEET

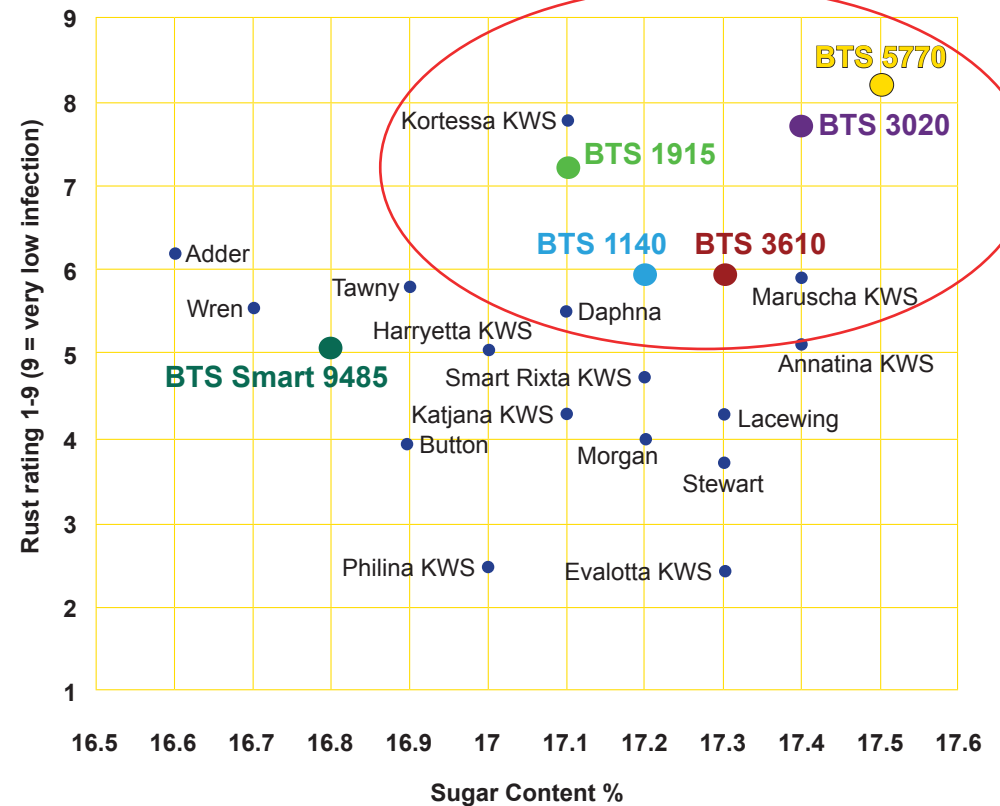
- Excellent disease resistance profile
- Yield adjusted tonnes: Treated 99.8%
Untreated 101.9%
- Very high sugar content: 17.5%
- Excellent ESB and NSB characteristics
- Recommended for all sowing dates
- Rhizomania tolerant



SECURITY IN GENETICS

The graph below shows disease resistance vs sugar content. It shows that along with yield, good disease resistance and sugar content is essential in maximising the chance to secure final profitability. As you can see, Betaseed varieties offer the best combination of disease resistance and sugar content, a great asset when matched with both high yield potential and bolting tolerance for drilling date decision making.

DISEASE VS. RUST X SUGAR CONTENT %





BTS SMART 9485

THE BEST ALS HERBICIDE PACKAGE

- High adjusted tonnes: Treated 96%
Untreated 95.6%
- High sugar content 16.8%
- Good ESB and NSB tolerance
- Good disease profile
- Rhizomania tolerant

Breeders Comment:

BTS SMART 9485 is the first variety from the Betaseed stable with ALS herbicide tolerance. The variety has the best all-round package for this relatively new sugar beet category, offering the highest yield potential in combination with improved disease and bolting resistance.

It has a good disease resistance profile offering Rust (4.9), Powdery Mildew (5.9) and Cercospora (6.0) scores. BTS SMART 9485 has very good bolting tolerance figures – ESB (2327) and NSB (0).

BTS SMART 9485 is a step-up over previous SMART Conviso varieties, offering a robust and secure agronomic package.

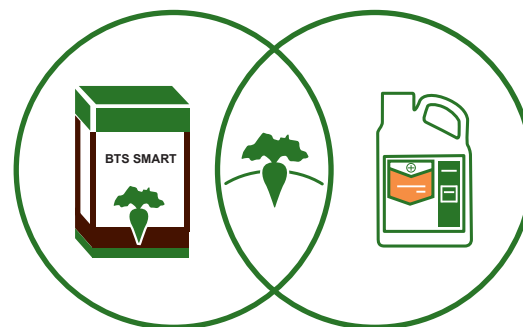


CONVISO® SMART INNOVATIVE SYSTEM WEED CONTROL

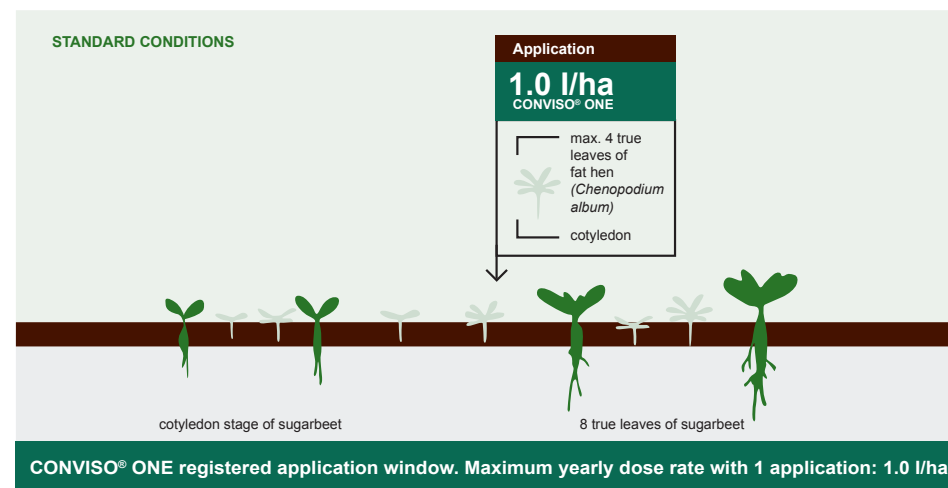
CONVISO® SMART is an innovative and highly effective technology for weed control and sustainable sugar beet cultivation

- BTS SMART sugarbeet varieties have a genetic tolerance to work successfully together with the CONVISO® ONE herbicide
- Combined efficacy against monocotyledonous and dicotyledonous weeds
- Does not show yield loss caused by phytotoxicity when using CONVISO® ONE
- Excellent control of conventional weed beets

Innovative weed control system:



Conviso® one application recommendation:



GENETIC DIVERSITY FOR A SUCCESSFUL HARVEST

BTS 1915
SIGNIFICANTLY DIFFERENT

BTS 3610
DESIRABLE ALL-ROUND PERFORMER

BTS 3020
THE EARLY BIRD

BTS SMART 9485
THE BEST ALS HERBICIDE PACKAGE

BREEDERS SOWING PERIOD ADVICE FOR BTS VARIETIES

Variety	February	March	April	May
BTS 1915				
BTS 5770				
BTS 3020				
BTS 3610				
BTS 1140				
BTS SMART 9485				

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