

BETASEED[®]

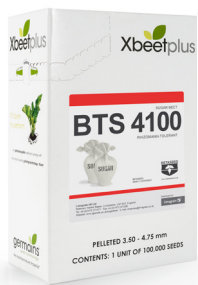


BETASEED

SUGAR BEET VARIETIES 2020

BETASEED. SIMPLY DIFFERENT.

www.betaseed.co.uk



BTS 4100

THE SWEETEST THING

- The highest sugar content available: 18.4%
- High adjusted tonnes: 101.8%
- High sugar yield: 101.5%
- Excellent ESB and NSB characteristics
- Rhizomania tolerant

Breeders Comment:

“BTS 4100 has very high inherent sugar content, offering growers that have difficulty achieving high sugar content on certain soil types or in challenging field conditions, the opportunity to maximise yield potential.

BTS 4100 has excellent early sowing characteristics with low ESB and zero NSB counts, combined with good agronomic characteristics.”



BTS 3325

THE EARLY STARTER

- Consistent performer in trials and on farm
- High adjusted tonnes: 101.5 %
- High sugar yield: 101.3 %
- Very high sugar content: 18.2%
- Good ESB and NSB characteristics
- Rhizomania tolerant

Breeders Comment:

“BTS 3325 has good early sown bolting tolerance, outyielding many of the traditional varieties in this early drilling slot. It has very high sugar content and good overall disease resistance. BTS 3325 performs consistently on farm, making it a preferred variety of growers looking for security in a sugar beet variety.”



RECOMMENDED LIST OF SUGAR BEET VARIETIES 2020

(Based on trials from 2016-2018)

RZ1 RHIZOMANIA VARIETIES				BTS 860	Sabatina KWS	Cantona KWS	Cayman	Hornet	Firefly	Haydn	Daphna	BTS 1140	Kortessa KWS	Advena KWS	Lightning	BTS 4100	Vixen	BTS 3325	Conger	Puffin	Degas	Flixter	Gauguin	Philina KWS	Smart Janninka KWS
Status: (C) = control variety ¹				R	R (C)	R	R (C)	R (C)	R	R	PR3	PR2	PR2	PR1	PR1	PR1	PR1	PR3	PR1	PR1	PR3	PR2	PR2	PS2	PS1
AYPR/BCN/ALS as claimed by the Breeder				-	-	BCN	-	-	-	-	BCN	-	-	-	-	-	-	-	-	-	-	BCN	BCN	AYPR	ALS
CROP YIELDS	MEAN	Control Value																							
Adjusted Tonnes % of C=100% ²	112.0 t/ha	100.0		102.1	102.0	101.8	99.4	99.3	97.9	97.9	105.4	104.9	104.7	104.0	102.6	101.8	101.6	101.5	101.3	100.9	100.1	99.1	99.0	102.7	90.1
Sugar Yield % of C=100% ²	17.1 t/ha			101.9	102.1	101.5	99.3	99.1	97.8	97.8	105.6	104.9	104.8	103.9	103.0	101.5	101.6	101.3	101.4	100.9	99.9	99.7	99.1	102.8	90.2
Root Yield % of C = 100% ²	95.1 t/ha			100.5	102.8	100.0	99.0	97.9	97.6	97.3	106.6	104.8	105.4	102.4	105.2	98.8	102.1	99.8	101.7	101.1	98.6	102.8	99.8	102.9	90.1
Sugar Content %	17.9%			18.2	17.8	18.2	18.0	18.2	18.0	18.1	17.8	18.0	17.9	18.2	17.6	18.4	17.9	18.2	17.9	17.9	18.2	17.4	17.8	17.9	18.0
BOLTERS per 100,000 plants/ha	MEAN	95% lsd	99.9% lsd																						
"X" Unsuitable for sowing BEFORE Mid March				X	X	X	-	-	-	-	-	X	-	-	X	-	-	-	-	-	X	-	-	X	X
Early Sowing, on or before 5 March ³	2,141/ha	3,365	4,459	3,831	3,406	4,000	1,443	3,064	1,891	1,667	2,882	5,138	2,573	2,475	4,495	2,062	1,692	2,606	2,776	2,048	3,688	3,325	1,455	9,023	3,375
Normal Sowing	16/ha	64	98	26	23	57	19	26	16	30	84	30	0	0	9	0	0	19	0	0	40	14	14	54	0
PRE-GAPPING ESTABLISHMENT ⁴																									
Control	100%			101.4	98.6	99.5	100.3	101.5	100.3	99.9	99.0	99.7	99.5	96.7	100.6	97.8	98.7	97.9	96.3	100.4	100.3	99.2	98.3	99.8	96.2
DISEASE (1 = high leaf infection, 9 = very low leaf infection) ⁵																									
Rust	5.4			5.6	5.8	5.9	5.0	6.3	3.2	4.8	5.7	(4.7)	(7.9)	(5.0)	(7.1)	(4.9)	(7.6)	5.3	(5.8)	(3.5)	5.2	2.2	(3.4)	(4.1)	(4.8)
RL SYSTEM																									
Year First Listed				2016	2015	2016	2011	2014	2016	2013	2017	2018	2018	2019	2019	2019	2019	2017	2019	2019	2017	2016	2018	2018	2019
BREEDER/UK CONTACT ⁶																									
Breeder				BTS	KWS	KWS	SV	SV	SV	STR	KWS	BTS	KWS	KWS	SV	BTS	SV	BTS	SV	SV	STR	MH	STR	KWS	KWS
UK Agent				LG	KWS	KW	SV	SV	SV	STR	KWS	LG	KWS	KWS	SV	LG	SV	LG	SV	SV	STR	MH	STR	KWS	KWS

Mean of control values include KWS Salamanca and Aurora which are no longer listed.

1. Newly listed varieties (PR1/PS1) 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 106,000 plants/ha in these trials. Differences in yields of less than 4% should be treated with reserve.

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

4. Differences of 4% or less in the variety establishment scores are not statistically significant.

5. Observations taken from inoculated trials not taken to yield.

6. BTS = Betaseed, KWS = KWS UK Ltd, LG = Limagrain UK Ltd, STR = Strube Sugar Beet UK Ltd, SV = SESVanderHave UK Ltd, MH = MariboHilleshog

() = Limited data. Full dataset available at www.bbco.co.uk



BTS 1140

RAISING THE BAR IN YIELD

- **Extremely high adjusted tonnes: 104.9%**
- Extremely high sugar yield: 104.9%
- High sugar content: 18.0%
- For normal and late sowing
- Rhizomania tolerant

Breeders Comment:

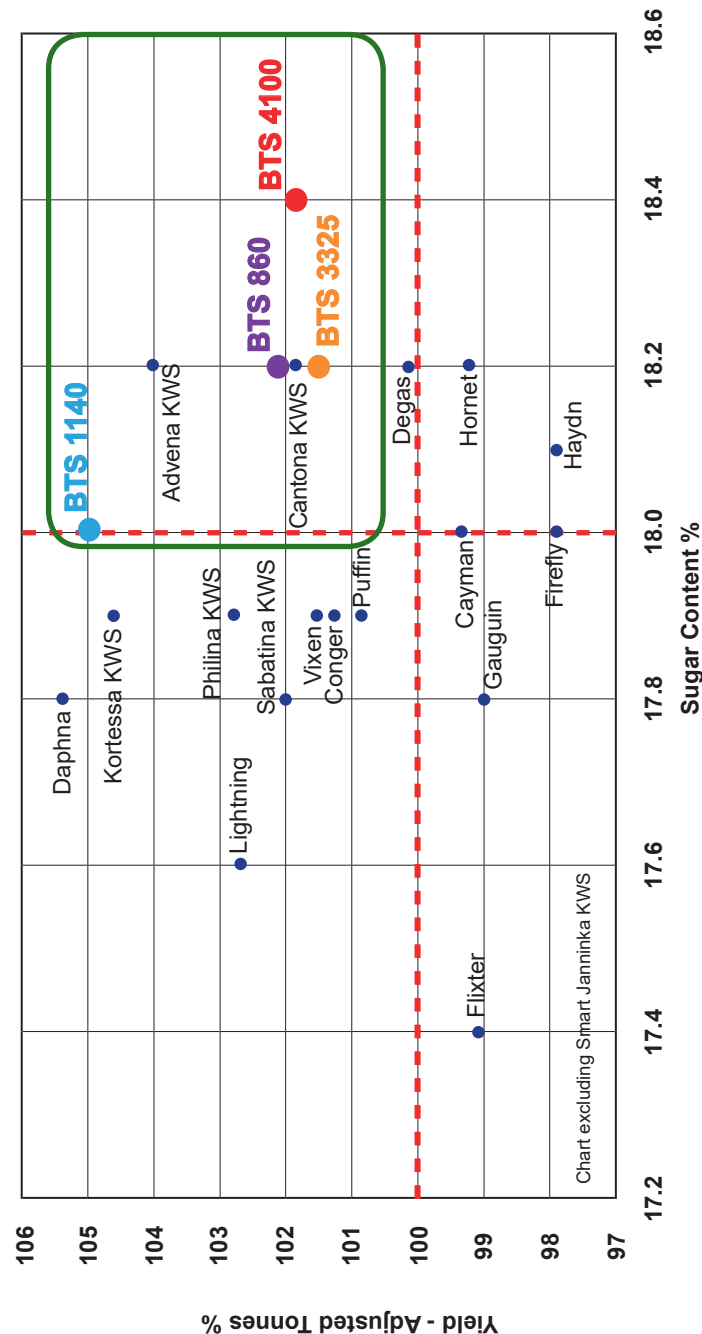
“BTS 1140 offers a significant yield advantage over many varieties on the new BBRO Recommended List. Internal and Recommended List trials data over several years suggests that BTS 1140 should not be sown early - a later drilling date is advisable. BTS 1140 also has a high sugar content, combined with good foliar disease tolerance.”



UPDATE - VIRUS YELLOWS: a threat to sugar beet

Since the withdrawal of neonicotinoid pesticides in 2019 the industry has to focus on cultural practices combined with a range of foliar insecticides to combat virus yellows. Virus yellows is a complex of 3 viruses (BMYV, BChV, BYV) which are transmitted when aphids feed on the young developing plant. Younger crops are more susceptible and the aim for growers is to get the crop to the 12-leaf stage as quickly as possible, as once plants reach this critical stage, a gradual increase in virus resistance is initiated, termed as mature plant resistance. Planting the beet crop into good, warm seedbeds with available moisture will ensure rapid germination and fast plant establishment. Growers considering drilling early to aid virus yellows control should only consider this practice in environments of known good rapid spring growth as beet sown in suboptimal conditions resulting in a slow growth may find that the developing crop is more at risk, due to the longer period of exposure to aphid attack. For the 2019 season we now have a two foliar insecticides available which will provide growers with up to 3 sprays to control aphids (1 spray of the previously approved flonicamid (Teppeki) and up to 2 applications of thiacloprid (Biscaya). More info: bbro.co.uk/research/neonic-update/

Chart 1: Sugar Content % vs. Adjusted Tonnes (% of C = 100%)



Sugar beet growers choose a variety based on adjusted tonnes to ensure optimum returns are achieved on farm. Growers have some degree of control regarding both root yield and sugar content potential through selecting the appropriate variety.

Looking at the graph above BTS varieties offer growers good root yield with above average sugar content to ensure high adjusted tonnes is achieved.

VARIETY POSITIONING FOR YOUR CHOSEN ROUTE



BTS 4100

HIGH YIELDING
EARLY SOWING
VARIETY, WITH
THE HIGHEST
SUGAR
CONTENT



BTS 1140

EXTREMELY
HIGH
YIELDING,
PUSHING
YIELD
BOUNDARIES



BTS 3325

RELIABLE HIGH YIELDING
VARIETY WITH VERY
HIGH SUGAR CONTENT,
SUITABLE FOR EARLY
SOWING



BREEDERS SOWING PERIOD ADVICE

Variety	February		March		April	May
BTS 4100						
BTS 3325						
BTS 1140						

Note: any rating shown in this publication has been extracted from the 2020 BBRO Sugar Beet Recommended List.

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