

RECOMMENDED LIST OF SUGAR BEET VARIETIES 2021 (Based on trials from 2017-2019)



Rz1 rhizomania varieties				Daphna	Sabatina KWS	Cantona KWS	BTS 3325	Degas	BTS1915	Evalotta KWS	Kortessa KWS	BTS1140	Advena KWS	Catriona KWS	Eldorana KWS	Lightning	Sancha KWS	Lacewing	BTS4100	Conger	Vixen	Puffin	Philina KWS	Smart Rivetta KWS	Smart Janninka KWS
Status: (C) = control variety ¹				R(C)	R(C)	R(C)	R(C)	R	PR1	PR1	PR3	PR3	PR2	PR1	PR1	PR2	PR1	PR1	PR1	PR2	PR2	PR2	PS3	PS1	PS1
AYPR/BCN as claimed by the Breeder				BCN	-	BCN	-	-	-	-	-	-	-	-	-	-	-	BCN	-	-	-	-	AYPR	ALS	ALS
CROP YIELDS	MEAN	95% lsd																							
Adjusted tonnes % of C=100% ²	118.1 t/ha	100.0	2.8	102.6	99.9	99.1	98.4	96.7	108.1	103.0	101.9	101.8	101.1	100.7	100.6	100.5	100.4	100.4	100.1	98.5	98.3	96.6	101.4	92.5	88.7
Sugar yield % of C=100% ²	18.1 t/ha			102.8	100.2	98.9	98.3	96.7	108.2	103.0	102.2	101.8	101.1	100.8	100.5	100.9	100.3	100.2	99.6	98.9	98.9	96.7	101.5	92.7	88.9
Root yield % of C=100% ²	101.4 t/ha			104.3	101.7	98.0	97.3	96.8	108.8	102.9	103.5	102.4	100.3	101.5	99.5	103.8	99.8	99.1	97.1	100.3	101.0	97.4	102.4	93.6	89.6
Sugar content %	18%			17.6	17.6	18.0	18.0	17.8	17.7	17.8	17.6	17.7	18.0	17.7	18.0	17.3	17.9	18.0	18.3	17.5	17.5	17.7	17.7	17.6	17.7
BOLTERS per 100,000 plants/ha	MEAN	95% lsd		99.9% lsd																					
"X" Unsuitable for sowing BEFORE Mid March for new (2021) list				-	X	-	-	X	X	X	-	X	-	-	-	-	-	X	-	-	-	-	X	-	-
Early sowing, before 5 March ³	2,199ha	3,315	4,288	2,690	3,457	3,256	1,780	4,058	8,484	3,498	1,972	4,495	2,681	1,265	2,083	3,295	1,667	4,916	1,570	2,034	1,871	1,716	6,278	1,564	2,733
Normal sowing	16/ha	59	89	9	16	7	9	50	0	0	7	35	9	0	0	0	0	9	0	0	9	0	26	67	0
PRE-GAPPING ESTABLISHMENT ⁴																									
Control	100%			98.9	101.1	100.7	99.2	101.5	103.7	102.5	100.2	100.0	99.6	98.1	100.1	102.4	100.6	102.3	98.6	99.7	101.3	101.2	102.3	95.2	98.6
DISEASE (1 = high leaf infection 9 = very low leaf infection) ⁵																									
Rust	4.3			4.3	4.9	4.3	3.8	6.0	(8.7)	(2.2)	7.7	5.0	(3.6)	(1.4)	(1.7)	(5.9)	(4.1)	(3.6)	(4.3)	(5.1)	(5.5)	(4.4)	3.0	(3.4)	(3.7)
Powdery mildew	5.5			(5.6)	(5.0)	(5.8)	(5.5)	(2.5)	(4.2)	(4.2)	(5.7)	(4.6)	(3.6)	(5.6)	(5.1)	(4.8)	(3.9)	(4.0)	(2.9)	(5.1)	(3.7)	(4.2)	(4.6)	(5.4)	(3.0)
RL SYSTEM																									
Year first listed				2017	2015	2016	2017	2017	2020	2020	2018	2018	2019	2020	2020	2019	2020	2020	2019	2019	2019	2019	2018	2020	2019
BREEDER/UK CONTACT ⁶																									
Breeder				KWS	KWS	KWS	BTS	STR	BTS	KWS	KWS	BTS	KWS	KWS	KWS	SV	KWS	SV	BTS	SV	SV	SV	KWS	KWS	KWS
UK Agent				KWS	KWS	KWS	LG	STR	LG	KWS	KWS	LG	KWS	KWS	KWS	SV	KWS	SV	LG	SV	SV	SV	KWS	KWS	KWS

Mean of control values include BTS 860 which is no longer listed.

1 Newly listed varieties (PR1/PS1) have results from three years using approximately 2 kgs breeders' seed. Thereafter commercial seed should be used in RL trials. (See supplementary table).

2 Yields based on an average plant population of 103,100 plants/ha in these trials. Differences in adjusted tonnes of less than 2.8% 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 3.7% should be treated with reserve.

5 Observations for rust taken from inoculated trials that are not taken to yield. Powdery mildew data taken from main series using 2018 & 2019 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

Brackets indicate figure derived from fewer than 3 years of data