

RECOMMENDED LIST OF SUGAR BEET VARIETIES 2023 (Based on trials from 2019-2021)

Rz1 rhizomania varieties				Daphna	BTS1140	Kortessa KWS	BTS1915	Harretta KWS	Katjana KWS	Annatina KWS	BTS3610	Wren	Morgan	Stewart	Tawny	Evalotta KWS	Adder	BTS3020	BTS5770	Buifon	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	PS3(C)	PS1	PS1	PS1		
AYPR/BCN/ALS/VY as claimed by the Breeder				BCN	-	-	-	BCN	BCN	-	-	-	-	-	-	-	-	-	-	BCN	BCN	AYPR	V	ALS	ALS		
CROP YIELDS	MEAN	95% lsd																									
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	16.7	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% lsd		99.9% lsd																							
"X" Unsuitable for sowing BEFORE Mid March for new (2023) list				-	-	-	X	-	-	-	-	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		5.5	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 ⁷																											
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		

Mean of control varieties includes Advena KWS which is no longer listed and Philina KWS which submitted Breeders seed in 2021

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 100,900 plants/ha in these trials. Differences in adjusted tonnes of less than 2.5% 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 3.3% should be treated with reserve.

⁵ Cercospora ratings should be treated with caution.

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

⁷ BTS = Betaseed, KWS = KWS UK Ltd, LG = Limagrain UK Ltd, STR = Strube UK Ltd, SV = SESVanderHave UK Ltd