

RECOMMENDED LIST OF SUGAR BEET VARIETIES 2022 (Based on trials from 2018-2020)

Rz1 rhizomania varieties				Daphna	BTS1140	Kortessa KWS	BTS1915	Katjana KWS	BTS3020	Wren	BTS5770	Evalotta KWS	Advena KWS	Sancha KWS	BTS4100	Lacewing	Philina KWS	Maruscha KWS	Smart Rixta KWS	Smart Janninka KWS
Status: (C) = control variety ¹				R(C)	R (C)	R (C)	PR2	PR1	PR1	PR1	PR1	PR2	PR3	PR1	PR2	PR2	S (C)	PS1	PS1	PS1
AYPR/BCN/ALS/virus as claimed by the Breeder				BCN	-	-	-	BCN	-	-	-	-	-	-	-	BCN	AYPR	Virus ⁷	ALS	ALS
CROP YIELDS		MEAN	95% lsd																	
Adjusted tonnes % of C=100% ²	105.8 t/ha	100.0	2.8	101.0	100.0	99.9	107.3	102.7	102.2	101.7	101.5	101.4	99.8	99.1	99.0	98.7	99.2	93.5	92.2	88.6
Sugar yield % of C=100% ²	16.9 t/ha			101.0	100.0	99.9	107.3	102.7	102.2	101.7	101.5	101.4	99.8	99.1	99.0	98.7	99.2	93.5	92.2	88.6
Root yield % of C=100% ²	99.5 t/ha			101.3	99.6	99.7	107.1	101.6	100.2	104.5	98.2	100.3	98.1	97.2	95.4	97.0	99.4	91.6	91.3	87.9
Sugar content %	17.1%			17.0	17.2	17.1	17.1	17.2	17.4	16.6	17.6	17.2	17.3	17.4	17.7	17.3	17.1	17.4	17.2	17.2
BOLTERS per 100,000 plants/ha		MEAN	95% lsd	99.9% lsd																
"X" Unsuitable for sowing BEFORE Mid March for new (2022) list				-	-	-	X	-	-	-	-	X	-	-	-	-	X	X	X	-
Early sowing, before 5 March ³	1,911 /ha	2,972	3,905	2,119	2,882	1,723	6,674	1,630	675	2,532	968	3,111	2,083	1,259	1,438	2,963	4,445	7,204	3,335	2,855
Normal sowing	30 /ha	-	96	0	74	9	16	0	14	23	0	23	12	0	0	26	40	0	14	21
PRE-GAPPING ESTABLISHMENT ⁴																				
Control	100%			98.0	98.6	100.3	103.5	99.7	101.1	102.2	101.9	101.6	99.4	98.8	97.7	102.0	103.2	96.7	101.9	97.9
DISEASE (1 = high leaf infection 9 = very low leaf infection) ⁵																				
Rust	5.3			5.3	5.4	7.7	6.7	(3.9)	(7.5)	(6.2)	(8.1)	2.2	3.0	4.3	5.1	4.2	2.9	(6.0)	(4.2)	4.0
Powdery mildew	5.0			5.4	4.6	5.7	4.7	5.3	4.6	4.9	5.2	4.4	3.8	4.3	2.6	4.0	4.5	3.0	4.6	3.0
RL SYSTEM																				
Year first listed				2017	2018	2018	2020	2021	2021	2021	2021	2020	2019	2020	2019	2020	2018	2021	2021	2019
BREEDER/UK CONTACT ⁶																				
Breeder				KWS	BTS	KWS	BTS	KWS	BTS	SV	BTS	KWS	KWS	KWS	BTS	SV	KWS	KWS	KWS	KWS
UK Agent				KWS	LG	KWS	LG	KWS	LG	SV	LG	KWS	KWS	KWS	LG	SV	KWS	KWS	KWS	KWS

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 99,200 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 3.4% should be treated with reserve.

⁵ Rust observations also taken from inoculated trials in 2018 & 2019 that were not taken to yield.

⁶ BTS = Betaseed, KWS = KWS UK Ltd, LG = Limagrain UK Ltd, SV = SESVanderHave UK Ltd

⁷ Breeders claims are for tolerance to some of the yellowing viruses

Brackets indicate figure derived from fewer than 3 years of data