

RECOMMENDED LIST OF SUGAR BEET VARIETIES 2025 (Based on trials from 2021-2023)

Rz1 rhizomania varieties					BTS1915	Daphna	Harryetta KWS	Kajana KWS	Chyma KWS	Annatina KWS	Josephina KWS	Morgan	ST Tweed	Magpie	ST Trent	Wren	Blutton	Osprey	BTS3610	Stewart	Tawny	Adder	Smart Uma KWS	BTS Smart 9485	Smart Vesnica KWS	Maruscha KWS	
Status: (C) = control variety ¹					Y5(C)	Y8 (C)	Y3	Y4(C)	Y1	Y3	Y1	Y3	Y1	Y1	Y1	Y4(C)	Y3	Y2	Y3	Y3	Y3	Y3	SY1	SY3	SY2	SY4	
AYPR/BCN/ALS/VY/Cercospora as claimed by the Breeder					-	BCN	BCN	BCN	CERC	-	-	-	-	-	-	-	BCN	AYPR	-	-	-	-	ALS	ALS	ALS	V	
CROP YIELDS ²		MEAN	SE	95% lsd																							
Adjusted tonnes % of C=100% ³	102.7 t/ha	100.0	1.17	3.3	102.2	101.3	101.3	100.6	101.0	99.3	99.5	98.6	98.2	97.7	97.7	97.6	97.6	97.6	97.3	97.2	96.7	96.7	95.3	93.1	93.0	88.2	
Sugar yield % of C=100% ³	16.4 t/ha			3.3	102.2	101.3	101.3	100.6	101.0	99.3	99.5	98.6	98.2	97.7	97.7	97.6	97.6	97.6	97.3	97.2	96.7	96.7	95.3	93.1	93.0	88.2	
Root yield % of C=100% ³	96.7 t/ha			3.5	102.2	101.1	101.7	99.4	101.1	97.8	96.9	97.4	97.5	96.4	95.7	99.2	97.5	96.8	96.5	95.7	97.6	98.5	94.3	94.5	91.2	86.9	
Sugar content %	16.9%			0.3	16.9	16.9	16.8	17.1	16.9	17.2	17.3	17.1	17.0	17.1	17.2	16.6	16.9	17.0	17.1	17.1	16.7	16.6	17.1	16.7	17.2	17.1	
BOLTERS per 100,000 plants/ha		MEAN	95% lsd		99.9% lsd																						
"X" Unsuitable for sowing BEFORE Mid March for new (2024) list				X					X			X										X	X			X	
Early sowing, before 5 March ⁴	4,012 /ha	6,834		9,611	9,990	3,345	2,273	2,443	10,298	3,853	1,576	8,376	1,944	[4,636]	2,981	6,129	3,266	[3,656]	5,516	4,117	7,356	7,511	3,325	3,055	4,000	10,324	
Normal sowing	33 /ha	-		129	30	7	0	9	14	7	30	47	47	35	12	54	7	23	0	40	45	9	14	19	12	69	
EARLY ESTABLISHMENT ⁵		95% lsd																									
Control	100%	3.6%		99.8	99.5	98.6	100.0	98.7	95.2	97.8	99.0	94.7	98.5	98.8	100.5	99.8	99.8	98.2	98.5	99.5	100.2	96.9	95.2	99.9	96.5		
TOTAL MEASURED IMPURITIES (IMP/100G SUGAR)		15% above mean of C		95% lsd																							
Control	3.42	3.93		0.211	3.68	3.50	3.30	3.15	3.51	3.35	3.22	3.11	3.15	3.23	3.16	3.53	3.26	3.23	3.31	3.08	3.55	3.58	3.84	3.24	3.65	3.72	
DISEASE (1 = high leaf infection 9 = very low leaf infection) ⁶		Average																									
Rust		5.3		6.8	4.7	3.8	3.8	[6.5]	5.8	[6.2]	3.8	[5.4]	[4.1]	[5.7]	5.4	4.7	[4.6]	6.1	3.6	6.1	5.8	[6.6]	6.1	[6.7]	6.4		
Powdery mildew		5.5		5.1	5.8	5.9	5.6	[6.4]	5.0	[1.5]	3.6	[6.3]	[4.3]	[1.5]	4.9	5.1	[4.5]	5.5	3.7	5.2	5.2	[6.2]	6.7	[4.8]	3.3		
Cercospora		6.5		[6.7]	[6.7]	[6.4]	[6.4]	[7.2]	[5.9]	[6.6]	[5.6]	[6.5]	[6.9]	[5.9]	[6.4]	[5.7]	[6.6]	[6.4]	[5.4]	[6.9]	[6.4]	[6.6]	[5.9]	[6.4]	[7.8]		
OTHER CLAIMS																											
AYPR (Aggressive rhizomania)					-	-	-	-	-	-	-	-	-	-	-	-	-	Y	-	-	-	-	-	-	-	-	
ALS (Herbicide Tolerant)					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Y	Y	Y	-	
BCN (as claimed by the Breeder)					-	Y	Y	Y	-	-	-	-	-	-	-	-	Y	-	-	-	-	-	-	-	-	-	
V (as claimed by the Breeder) ⁷					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	V	
CERC (as claimed by the Breeder)					-	-	-	-	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RL SYSTEM																											
Year first listed					2020	2017	2022	2021	2024	2022	2024	2022	2024	2024	2024	2021	2022	2023	2022	2022	2022	2022	2024	2022	2023	2021	
BREEDER/UK CONTACT ⁸																											
Breeder					BTS	KWS	KWS	KWS	KWS	KWS	KWS	STR	STR	SV	STR	SV	STR	SV	BTS	STR	SV	SV	KWS	BTS	KWS	KWS	
UK Agent					LG	KWS	KWS	KWS	KWS	KWS	KWS	STR	STR	SV	STR	SV	STR	SV	LG	STR	SV	SV	KWS	LG	KWS	KWS	

Mean of controls includes BTS1140 which is no longer listed

¹ Newly listed varieties (Y1/SY1) have results from three years using approximately 2 kgs breeders' seed. Thereafter commercial seed is used in RL trials. (See supplementary table).

² 33 trials were drilled and had data collected over the 3 years; 28 of these trials were harvested.

³ Yields based on an average plant population of 102,500 plants/ha in these trials. Differences in adjusted tonnes of less than 3.3% should be treated with reserve.

⁴ The ratings from normal sowings are applicable for sowing after mid-March in most seasons.

⁵ Differences in establishment of less than 3.6% should be treated with reserve. 14/33 trials were gapped.

⁶ Cercospora ratings should be treated with caution with no available data in 2022.

⁷ Breeder's claims are for tolerance to BMYV and has lower yield losses than susceptible varieties to BYV.

⁸ BTS = Betaseed, KWS = KWS UK Ltd, LG = Limagrain UK Ltd, STR = Strube Sugar Beet UK Ltd, SV = SES/VanderHave UK Ltd
[] - limited data