

## RECOMMENDED LIST OF SUGAR BEET VARIETIES 2024 (Based on trials from 2020-2022)

UNTREATED DATA from 3 trials in 2020, 3 trials in 2021 and 3 trials in 2022

Rz1 rhizomania varieties				BTS1915	Daphna	BTS1140	Harrietta KWS	Katjana KWS	Annatina KWS	Wren	Osprey	BTS3610	Morgan	Button	BTS3020	Adder	Tawny	Stewart	Philina KWS	BTS Smart 9485	Smart Vesnica KWS	Maruscha KWS	
Status: (C) = control variety <sup>1</sup>				Y4(C)	Y7(C)	Y6(C)	Y2	Y3	Y2	Y3	Y1	Y2	Y2	Y2	Y3	Y2	Y2	Y2	SY6	SY2	SY1	SY3	
AYPR/BCN/ALS/VY as claimed by the Breeder				-	BCN	-	BCN	BCN	-	-	AYPR	-	-	BCN	-	-	-	-	AYPR	ALS	ALS	V	
CROP YIELDS		MEAN	Control Mean	95% lsd																			
Adjusted tonnes % of C=100% <sup>2</sup>		109.7 t/ha	100.0	4.2	103.8	100.7	100.2	101.3	99.1	100.4	97.9	98.1	100.6	96.9	96.8	97.9	97.7	98.2	96.1	97.9	92.7	96.2	92.9
Sugar yield % of C=100% <sup>2</sup>		17.6 t/ha		4.2	103.8	100.7	100.2	101.3	99.1	100.4	97.9	98.1	100.6	96.9	96.8	97.9	97.7	98.2	96.1	97.9	92.7	96.2	92.9
Root yield % of C=100% <sup>2</sup>		103.6 t/ha		4.0	104.0	101.6	100.1	101.7	99.4	99.5	100.7	99.2	99.1	97.4	97.9	96.4	100.6	100.0	96.3	99.5	95.6	94.0	91.9
Sugar content %		16.8%		0.3	16.76	16.64	16.84	16.73	16.73	16.95	16.32	16.62	17.08	16.68	16.60	17.08	16.34	16.49	16.76	16.51	16.26	17.18	17.00
BOLTERS per 100,000 plants/ha		MEAN		99.9% lsd																			
Normal sowing <sup>3</sup>		42 /ha		226 #	72	0	96	21	0	0	0	96	23	0	19	84	0	23	54	0	2	50	0
PRE-GAPPING ESTABLISHMENT <sup>4</sup>			95% lsd																				
Control			100%	5.6%	101.3	100.0	99.4	99.9	100.6	95.2	102.7	103.9	98.8	99.8	102.1	97.6	101.6	101.7	97.4	102.7	97.9	99.3	97.2
TOTAL MEASURED IMPURITIES (IMP/100G SUGAR)			15% above mean of C																				
Control			4.21	4.84	4.30	4.30	3.76	3.92	3.57	3.91	4.38	4.00	3.66	3.48	3.60	4.22	4.16	4.30	3.47	4.22	4.00	4.01	4.36
RL SYSTEM																							
Year first listed				2020	2017	2018	2022	2021	2022	2021	2023	2022	2022	2022	2021	2022	2022	2022	2022	2018	2022	2023	2021
BREEDER/UK CONTACT <sup>5</sup>																							
Breeder				BTS	KWS	BTS	KWS	KWS	KWS	SV	SV	BTS	STR	STR	BTS	SV	SV	STR	KWS	BTS	KWS	KWS	
UK Agent				LG	KWS	LG	KWS	KWS	KWS	SV	SV	LG	STR	STR	LG	SV	SV	STR	KWS	LG	KWS	KWS	

Mean of controls includes Kortessa KWS and Evalotta KWS which are no longer listed.

<sup>1</sup> Newly listed varieties (Y1/YS1) have results from two years using approximately 2 kgs breeders' seed (Not in trial in 2021). Thereafter 2 commercial seed should be used in RL trials.

<sup>2</sup> Yields based on an average plant population of 101,000 plants/ha in these trials. Differences in adjusted tonnes of less than 4.2% should be treated with reserve.

<sup>3</sup> The ratings from normal sowings are applicable for sowing after mid-March in most seasons.

<sup>4</sup> Differences in establishment of less than 5.6% should be treated with reserve.

<sup>5</sup> BTS = Betaseed, KWS = KWS UK Ltd, LG = Limagrain UK Ltd, STR = Strube Sugar Beet UK Ltd, SV = SESVanderHave UK Ltd

# - 99.9% LSD

**RECOMMENDED LIST OF SUGAR BEET VARIETIES 2024 (Based on trials from 2020-2022)**

Rz1 rhizomania varieties 3-year data				BTS1915	Daphna	BTS1140	Harryetta KWS	Katjana KWS	Annatina KWS	Wren	Osprey	BTS3610	Morgan	Button	BTS3020	Adder	Tawny	Stewart	Philina KWS	BTS Smart 9485	Smart Vesnica KWS	Maruscha KWS	
STATUS (C) = control variety				Y4(C)	Y7(C)	Y6(C)	Y2	Y3	Y2	Y3	Y1	Y2	Y2	Y2	Y3	Y2	Y2	Y2	Y2	SY6	SY2	SY1	SY3
AYPR/BCN/ALS/VY as claimed by the Breeder				-	BCN	-	BCN	BCN	-	-	AYPR	-	-	BCN	-	-	-	-	-	AYPR	ALS	ALS	V
ADJ TONNES (Gapped Trials)		T's per ha	Control	95% Isd																			
% Mean of (C)	Mean	109.7	100.0	4.2	103.8	100.7	100.2	101.3	99.1	100.4	97.9	98.1	100.6	96.9	96.8	97.9	97.7	98.2	96.1	97.9	92.7	96.2	92.9
	2022	99.2			102.1	100.1	102.4	100.8	96.3	104.0	98.9	95.8	101.1	96.9	95.2	100.5	95.8	96.6	92.0	96.7	90.4	97.0	92.3
	2021	115.8			104.3	100.3	99.0	101.2	101.0	101.9	97.1	-	101.5	98.1	99.2	95.6	96.5	96.8	99.0	98.6	93.1	-	92.8
	2020	102.7		8.9	105.2	101.6	100.6	102.2	99.7	95.5	97.4	97.8	99.3	93.3	92.7	99.1	99.0	100.4	92.3	96.2	93.5	94.8	93.6
SUGAR YIELD (Gapped Trials)																							
% Mean of (C)	Mean	17.6			103.8	100.7	100.2	101.3	99.1	100.4	97.9	98.1	100.6	96.9	96.8	97.9	97.7	98.2	96.1	97.9	92.7	96.2	92.9
	2022	15.9			102.1	100.1	102.4	100.8	96.3	104.0	98.9	95.8	101.1	96.9	95.2	100.5	95.8	96.6	92.0	96.7	90.4	97.0	92.3
	2021	18.5			104.3	100.3	99.0	101.2	101.0	101.9	97.1	-	101.5	98.1	99.2	95.6	96.5	96.8	99.0	98.6	93.1	-	92.8
	2020	16.4			105.2	101.6	100.6	102.2	99.7	95.5	97.4	97.8	99.3	93.3	92.7	99.1	99.0	100.4	92.3	96.2	93.5	94.8	93.6
ROOT YIELD (Gapped Trials)																							
% Mean of (C)	Mean	103.6			104.0	101.6	100.1	101.7	99.4	99.5	100.7	99.2	99.1	97.4	97.9	96.4	100.6	100.0	96.3	99.5	95.6	94.0	91.9
	2022	100.0			103.0	100.3	101.4	101.1	96.8	100.4	101.0	100.5	98.7	98.2	96.6	97.5	99.0	98.1	93.0	97.5	92.8	92.4	90.8
	2021	104.8			103.5	100.9	99.5	101.2	101.8	101.7	100.0	-	100.8	98.6	100.3	93.5	100.2	99.4	99.3	99.9	96.0	-	91.6
	2020	101.1			105.8	103.0	100.1	103.4	99.0	95.9	101.3	97.4	97.1	94.2	94.2	99.0	100.7	101.6	92.6	99.8	97.1	94.3	92.9
SUGAR CONTENT (Gapped Trials)		%																					
Sugar %	Mean	16.8			16.8	16.6	16.8	16.7	16.7	17.0	16.3	16.6	17.1	16.7	16.6	17.1	16.3	16.5	16.8	16.5	16.3	17.2	17.0
	2022	15.8			15.7	15.7	16.0	15.7	15.7	16.3	15.4	15.0	16.2	15.5	15.5	16.3	15.3	15.5	15.5	15.5	15.4	16.5	16.0
	2021	17.7			17.8	17.6	17.6	17.6	17.5	17.8	17.1	-	17.8	17.6	17.5	18.0	17.0	17.2	17.7	17.5	17.1	-	17.9
	2020	16.2			16.2	16.0	16.3	16.0	16.3	16.2	16.0	16.3	16.6	16.0	16.3	16.2	15.9	16.0	16.6	15.6	15.4	16.3	16.4
NORMAL SOWN BOLTERS		Mean of (C)	95% Isd	99.9% Isd																			
Bolters/ha (per 100,000 plants)	Mean	42	-	226	72	0	96	21	0	0	0	96	23	0	19	84	0	23	54	0	2	50	0
	2022	26	-		0	0	62	62	0	0	0	169	0	0	0	125	0	0	67	0	0	0	0
	2021	40	-		0	99	107	0	0	0	0	-	54	0	45	96	0	52	0	0	0	-	0
	2020	79	-		0	132	132	0	0	0	0	0	0	0	0	0	0	0	153	0	0	135	0
PRE-GAPPING ESTABLISHMENT		Mean of (C)																					
Plant population as % mean of (C) 2 sites in 2021 sown at 9cm spacing	Mean	134	5.6		101.3	100.0	99.4	99.9	100.6	95.2	102.7	103.9	98.8	99.8	102.1	97.6	101.6	101.7	97.4	102.7	97.9	99.3	97.2
	2022	184			101.0	98.3	101.8	99.5	99.8	96.6	102.1	103.2	93.8	99.4	102.8	96.3	102.6	100.7	95.6	103.1	95.5	98.1	96.0
	2021	119			100.3	100.8	98.7	95.6	101.9	92.2	100.8	-	102.7	98.0	104.8	99.0	98.6	100.5	98.6	102.7	99.7	-	97.4
	2020	99			102.3	101.5	96.9	105.7	100.1	95.7	105.4	104.7	99.8	101.2	98.8	98.7	103.5	106.3	102.2	103.5	98.3	101.1	101.2
RL SYSTEM																							
Year first listed				2020	2017	2018	2022	2021	2022	2021	2023	2022	2022	2022	2021	2022	2022	2022	2022	2018	2022	2023	2021
BREEDER/UK CONTACT <sup>5</sup>																							
Breeder				BTS	KWS	BTS	KWS	KWS	KWS	SV	SV	BTS	STR	STR	BTS	SV	SV	STR	KWS	BTS	KWS	KWS	
UK Agent				LG	KWS	LG	KWS	KWS	KWS	SV	SV	LG	STR	STR	LG	SV	SV	STR	KWS	LG	KWS	KWS	

Newly listed varieties not in trial in 2021