RECOMMENDED LIST OF SUGAR BEET VARIETIES 2026 (Based on trials from 2022-2024) Supplementary data

Rz1 rhizomania varieties					BTS1915	Antler	Katjana KWS	Haryetta KWS	Daphna	Chyma KWS	Gadwall	Annatina KWS	Josephina KWS	Hoopoe	Aslan	Morgan	Magpie	BTS3610	ST Tweed	Button	Osprey	Smart Uma KWS	Generosa KWS	BTS Smart 9485	Smart Vesnica KWS	Smart Nelda KWS	Maruscha KWS
Status: (C) = control variety [1]					Y6(C)	Y1	Y5(C)	Y4(C)	Y9(C)	Y2	Y1	Y4(C)	Y2	Y1	Y1	Y4	Y2	Y4	SY2	Y4	Y3	SY2	SY1	SY4	SY3	SY1	SY5
AYPR/BCN/ALS/VY as claimed by the Breeder					-	-	BCN	BCN	BCN	CERC	-	-	-	BCN	-	-	-	-	V	BCN	AYPR	ALS	V	ALS	ALS	ALS/BCN	V
ADJUSTED TONNES		T's per ha	Control	95% lsd																							
			100	3.4	101.4	100.6	99.9	99.8	99.6	99.4	99.4	99.3	98.4	97.7	97.3	96.8	96.7	96.6	96.6	95.4	94.9	94.1	92.6	91.6	91.1	89.5	87.3
% Mean of (C)	2024	104.0			103.1	99.9	100.1	98.4	97.3	98.3	97.0	101.1	99.5	98.7	97.3	94.8	97.5	95.6	96.0	94.9	94.1	93.2	92.4	91.5	92.7	89.8	87.7
	2023	99.2			101.9	102.0	99.7	99.1	101.1	102.4	99.2	98.2	98.9	96.5	102.8	100.3	96.5	97.0	100.2	95.7	94.9	95.0	93.3	91.7	92.9	91.4	87.9
	2022	95.6			99.2	99.9	99.9	101.8	100.1	96.2	102.9	98.9	96.5	97.5	91.3	95.1	96.3	97.1	92.2	95.5	95.7	94.6	92.1	91.5	87.9	87.4	86.5
SUGAR YIELD																											
				3.4	101.4	100.6	99.9	99.8	99.6	99.4	99.4	99.3	98.4	97.7	97.3	96.8	96.7	96.6	96.6	95.4	94.9	94.1	92.6	91.6	91.1	89.5	87.3
% Mean of (C)	2024	16.6			103.1	99.9	100.1	98.4	97.3	98.3	97.0	101.1	99.5	98.7	97.3	94.8	97.5	95.6	96.0	94.9	94.1	93.2	92.4	91.5	92.7	89.8	87.7
	2023	15.9			101.9	102.0	99.7	99.1	101.1	102.4	99.2	98.2	98.9	96.5	102.8	100.3	96.5	97.0	100.2	95.7	94.9	95.0	93.3	91.7	92.9	91.4	87.9
	2022	15.3			99.2	99.9	99.9	101.8	100.1	96.2	102.9	98.9	96.5	97.5	91.3	95.1	96.3	97.1	92.2	95.5	95.7	94.6	92.1	91.5	87.9	87.4	86.5
ROOT YIELD																											
				3.3	102.2	99.4	98.9	100.6	100.3	99.5	99.1	98.1	96.2	98.3	97.1	96.1	96.2	96.1	96.5	95.7	94.4	93.1	90.2	93.0	90.0	86.4	86.7
% Mean of (C)	2024	97.4			104.2	98.6	99.0	98.7	98.6	98.6	97.2	99.5	97.0	99.7	97.3	95.2	97.6	95.7	96.7	96.4	94.4	92.2	89.7	92.4	92.1	87.2	87.6
	2023	99.1			102.2	100.3	98.7	100.4	101.5	101.6	98.8	97.2	95.9	96.6	102.0	98.1	95.8	97.0	98.8	94.5	91.3	93.1	91.7	93.3	91.5	87.9	87.0
	2022	89.2			100.3	99.7	99.1	102.5	100.4	97.7	102.2	97.8	95.8	98.3	91.6	94.9	95.6	95.5	92.7	96.4	97.9	94.7	89.7	93.3	86.3	83.9	85.5
SUGAR CONTENT																											
				0.273	16.5	16.8	16.9	16.6	16.6	16.6	16.7	16.9	17.1	16.6	16.7	16.8	16.7	16.8	16.7	16.6	16.7	16.8	17.1	16.4	16.9	17.2	16.8
Sugar %	2024	17.0			16.9	17.2	17.2	17.0	16.8	17.0	17.0	17.3	17.5	16.9	17.1	17.0	17.0	17.0	16.9	16.8	17.0	17.2	17.5	16.9	17.1	17.5	17.0
	2023	16.0			15.9	16.3	16.1	15.8	15.9	16.1	16.1	16.1	16.5	16.0	16.1	16.3	16.1	16.0	16.2	16.1	16.6	16.2	16.3	15.7	16.2	16.6	16.1
	2022	17.1			16.8	17.0	17.2	17.0	17.0	16.9	17.1	17.2	17.2	16.9	17.0	17.0	17.1	17.4	16.9	16.9	16.6	17.1	17.5	16.8	17.2	17.6	17.1
EARLY SOWN BOLTERS		Mean of (C) (excluding X)	95% lsd	99.9% lsd																							
"X" Unsuitable for sowing BEFORE Mid March			"X"		X					X						X		X				X	X	X	X	X	X
Unsuitable for sowing BEFORE Mid March (Breeder claim)																											
Bolters/ha	Mean	2,206 /ha	3,966	5,684	8,016	[3169]	1,871	1,805	2,573	7,260	[1904]	2,681	1,432	[3365]	1,541	5,683	2,899	4,395	1,851	3,093	2,690	3,074	8,099	2,767	2,097	1,218	6,586
(per 100,000 plants)	2024	1,667	3,955	6,545	6,464	2,690	1,286	1,477	2,177	4,370	1,570	1,818	1,698	2,855	2,090	5,918	1,460	3,093	1,630	2,846	1,858	3,315	4,834	2,112	770	1,028	3,864
Sown on or before 5th March	2023	5,194	9,399	13,784	17,113	-	4,689	3,775	5,683	12,305	-	7,128	2,062	-	1,972	13,125	8,977	13,223	3,256	5,546	6,031	5,839	31,137	5,668	6,464	1,871	20,528
	2022	245	1,109	2,017	2,236	-	153	247	291	6,534	-	291	247	-	247	396	489	355	500	824	698	291	778	762	633	581	1,296
NORMAL SOWN BOLTERS		Mean of (C)	95% lsd	99.9% lsd																							
Bolters/ha	Mean	14	-	117	30	0	19	14	0	14	0	9	0	0	0	33	33	19	57	9	21	38	14	0	0	14	26
(per 100,000 plants)	2024	19	-	270	0	0	0	91	0	0	0	0	0	0	0	0	0	138	96	0	0	0	0	0	0	0	72
	2023	14	-	143	59	0	16	0	0	0	0	0	0	0	0	67	47	0	23	19	0	42	0	0	0	0	0
	2022	12	-	251	0	0	33	0	0	54	0	28	0	0	0	0	28	0	109	0	62	52	47	0	0	47	42
PRE-GAPPING ESTABLISHMENT		Mean of (C)		95% lsd																							
Plant population as % mean of (C)	Mean	133		3.5	101.8	100.3	99.8	100.8	100.6	100.4	101.6	97.1	98.7	99.0	100.8	100.7	100.4	98.9	96.3	98.8	100	97.8	95.4	94.6	100.9	97.4	98.2
1 site in 2024 sown at 9cm spacing	2024	113			102.9	98.2	97.7	101.1	100.9	100.0	101.4	97.4	98.1	98.5	100.5	102.8	101.9	99.9	97.6	96.8	101.4	94.3	96.3	91.9	103.7	96.4	99.7
4 sites in 2023 sown at 9cm spacing	2023	131			102.3	102.8	99.8	101.4	101.0	101.5	103.2	95.6	99.4	99.5	102.9	101.0	101.9	99.9	95.9	99.3	96.9	100.9	95.1	95.4	100.1	99.6	98.9
7 sites in 2022 sown at 9cm spacing	2022	149			100.7	99.9	101.1	100.2	99.9	99.4	100.3	98.1	98.3	98.8	99.0	99.3	98.1	97.3	95.5	99.6	101.9	96.8	94.5	95.5	99.9	96.0	96.6
TOTAL MEASURED IMPURITIES		Mean of (C)	15% above mean of C																								
	Mean	3.60	4.14	0.188	3.86	3.51	3.33	3.56	3.68	3.72	3.60	3.56	3.39	3.47	3.45	3.29	3.47	3.44	3.36	3.44	3.42	4.01	3.45	3.40	3.88	3.41	3.86
Total Impurities	2024	3.50			3.71	3.42	3.19	3.51	3.65	3.63	3.51	3.47	3.40	3.43	3.41	3.17	3.51	3.30	3.19	3.36	3.38	3.98	3.33	3.42	3.73	3.27	3.61
(imp/100g sugar)	2023	3.49			3.74	3.55	3.28	3.40	3.52	3.61	3.63	3.53	3.07	3.27	3.48	3.18	3.29	3.49	3.35	3.29	3.16	3.85	3.49	3.24	3.70	3.30	3.87
	2022	3.76			4.07	3.55	3.46	3.75	3.85	3.87	3.63	3.67	3.82	3.68	3.41	3.48	3.61	3.50	3.43	3.65	3.70	4.22	3.50	3.53	4.15	3.64	4.02
RUST		Mean of (C)																									
% leaf infection	Mean	5.1			2.0	9.7	8.2	7.8	4.8	1.6	7.1	2.8	2.5	30.6	6.5	7.2	6.6	2.8	4.4	4.4	5.7	1.1	1.2	3.4	2.3	2.1	2.2
Natural infected trials	2024	3.9			0.9	6.7	8.8	5.9	2.1	0.9	5.8	1.8	2.0	23.2	4.7	6.8	4.2	1.2	2.7	2.3	5.0	0.4	0.5	2.0	1.2	1.3	1.3
	2023	2.8			1.0		4.3	4.9	2.7	0.7	-	1.3	1.1	-	-	5.7	6.3	1.6	2.7	2.5	4.0	0.5	-	3.5	0.7	-	0.9
	2022	13.7			7.9		17.1	17.7	15.5	-	-	10.4	-	-	-	15.5	13.1	10.7	-	14.4	13.6	-	-	7.6	8.8	-	8.4
POWDERY MILDEW		Mean of (C)																									
% leaf infection	Mean	1.3			1.6	5.6	1.4	1.0	1.1	1.0	-	1.3	19.8	5.4	-	3.9	2.7	1.5	0.8	1.7	2.8	0.8	1.4	0.5	1.7	-	6.7
Natural infected trials	2024	0.4			0.4	3.2	1.3	0.0	0.4	0.5	-	0.1	9.9	2.6	-	0.6	0.8	0.3	0.0	0.9	1.5	0.0	0.2	0.0	0.0	-	4.6
(mean data re-transformed)	2023	6.4			12.3	-	4.0	2.6	2.5	3.3	-	10.5	58.8	-	-	17.7	21.3	8.0	3.6	5.3	9.0	3.6	-	1.5	14.0	-	22.0
	2022	1.5			0.5	-	1.6	2.7	2.5	-	-	0.5	-	-	-	8.2	1.5	1.0	-	1.6	4.7	-	-	0.6	1.2	-	3.8
CERCOSPORA																											
% leaf infection	Mean	0.4			0.3	-	0.4	0.5	0.3	0.1	-	0.8	0.3	-	-	0.4	0.2	0.4	0.3	0.6	0.3	0.4	-	1.4	0.4	-	0.1
Natural infected trials	2024	0.2	1 trial		0.2	-	0.1	0.1	0.1	0.0	-	0.3	0.1	-	-	0.1	0.1	0.1	0.1	0.0	0.1	0.2	-	2.3	0.1	-	0.0
(mean data re-transformed)	2023	0.4			0.3	-	0.7	0.7	0.3	0.2	-	1.1	0.4	-	-	0.6	0.3	0.4	0.3	1.0	0.4	0.5	-	1.2	0.6	-	0.1
	2022	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1. 8 trials were drilled and had data collected in 2024; 6 of these trials were harvested.
2. 12 trials were drilled and had data collected in 2023; 9 of these trials were harvested.
3. 11 trials were drilled and had data collected in 2022; 9 of these trials were harvested.