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 esnica 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	SY6	SY2	SY1	SY3
AYPR/BCN/ALS/VY as claimed by the Breeder					-	BCN	-	BCN	BCN	-	-	AYPR	-	-	BCN	-	-	-	-	AYPR	ALS	ALS	V
ADJUSTED TONNES (Gapped Trials)		T's per ha	Control	95% lsd																			
	Mean	103.3	100.0	3.8	103.9	101.5	99.1	102.9	101.6	100.4	99.2	99.2	98.9	98.8	98.2	98.0	98.0	97.6	97.2	97.5	94.3	94.0	89.9
	2022	93.0			102.0	102.9	99.5	104.7	102.7	101.7	98.6	98.4	99.9	97.7	98.2	96.3	94.9	94.6	94.4	94.8	94.1	90.4	89.0
% Mean of (C)	2021	113.5			104.2	101.8	99.0	102.1	101.3	99.9	99.5	102.0	97.1	99.4	100.1	96.5	100.1	99.6	100.0	99.8	95.0	97.7	89.3
	2020	102.9			105.9	99.0	98.7	102.0	100.7	99.8	99.6	97.5	100.6	99.1	95.1	104.3	98.7	98.3	96.3	97.5	93.5	94.4	91.9
SUGAR YIELD (Gapped Trials)																							
	Mean	16.5		3.8	103.9	101.5	99.1	102.9	101.6	100.4	99.2	99.2	98.9	98.8	98.2	98.0	98.0	97.6	97.2	97.5	94.3	94.0	89.9
	2022	14.9			102.0	102.9	99.5	104.7	102.7	101.7	98.6	98.4	99.9	97.7	98.2	96.3	94.9	94.6	94.4	94.8	94.1	90.4	89.0
% Mean of (C)	2021	18.2			104.2	101.8	99.0	102.1	101.3	99.9	99.5	102.0	97.1	99.4	100.1	96.5	100.1	99.6	100.0	99.8	95.0	97.7	89.3
	2020	16.5			105.9	99.0	98.7	102.0	100.7	99.8	99.6	97.5	100.6	99.1	95.1	104.3	98.7	98.3	96.3	97.5	93.5	94.4	91.9
ROOT YIELD (Gapped Trials)																							
	Mean	95.4		3.5	104.5	101.8	99.5	103.8	101.2	99.3	102.4	100.6	98.1	98.5	99.4	96.3	100.7	99.1	96.7	98.4	96.4	92.6	88.6
% Mean of (C)	2022	86.9			103.0	103.1	100.5	105.2	101.7	100.4	101.9	100.6	98.1	97.4	99.0	94.4	97.7	96.2	94.0	94.8	95.8	88.6	87.8
	2021	100.9			104.5	101.9	99.2	102.9	101.1	98.9	102.1	102.7	97.5	99.6	102.0	95.3	102.6	101.2	99.3	101.3	97.2	96.5	88.5
	2020	99.0			106.2	99.9	99.0	103.4	100.7	98.5	104.0	98.6	99.1	98.1	96.3	101.9	101.7	99.5	96.1	98.4	96.1	93.3	89.7
SUGAR CONTENT (Gapped Trials)																							
	Mean	17.2		0.22	17.1	17.2	17.2	17.1	17.3	17.4	16.7	16.9	17.4	17.2	17.0	17.5	16.8	17.0	17.3	17.1	16.9	17.4	17.4
Sugar %	2022	17.0			16.8	17.0	16.9	17.0	17.2	17.2	16.5	16.6	17.4	17.0	16.9	17.3	16.6	16.7	17.0	16.9	16.8	17.2	17.1
	2021	17.9			17.8	17.9	17.9	17.8	18.0	18.1	17.5	17.8	17.9	17.9	17.6	18.1	17.5	17.6	18.1	17.7	17.5	18.1	18.0
	2020	16.6			16.6	16.4	16.6	16.4	16.6	16.9	16.0	16.5	16.9	16.8	16.5	17.0	16.1	16.5	16.7	16.5	16.1	16.8	17.0
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
	Mean	1,735 /ha	2,990	4,157	4,117	1,729	1,564	1,344	1,118	1,748	1,904	[2020]	2,170	3,385	1,547	1,023	3,169	2,802	1,871	3,375	1,489	1,972	4,200
Bolters/ha (per 100,000 plants) Sown on or before 5th March	2022	496	1,673	2,964	2,236	291	1,000	247	153	291	153	698	355	396	824	648	291	413	413	153	762	633	1,296
	2021	4,458	8,683	13,292	11,303	4,188	3,416	2,639	2,606	4,610	5,934	-	5,546	15,069	3,256	3,159	8,772	7,974	5,998	10,143	2,733	4,875	12,213
	2020	1,004	2,020	2,989	2,041	1,203	832	1,128	766	1,104	1,094	1,208	1,495	1,455	936	230	2,373	1,838	871	2,540	1,070	1,188	2,412
NORMAL SOWN BOLTERS	Mean of (C)		95% lsd	99.9% lsd																			
	Mean	26	-	152	21	7	64	0	9	9	72	26	0	28	9	21	9	47	16	47	21	12	76
Bolters/ha (per 100,000 plants)	2022	16	-	102	0	0	52	0	26	23	112	47	0	0	0	23	0	26	40	19	0	0	33
	2021	19	-	180	16	19	45	0	0	0	40	0	0	67	19	0	21	86	0	54	47	52	151
	2020	64	-	276	74	0	138	0	0	0	64	0	0	0	0	67	0	0	0	86	0	0	0
PRE-GAPPING ESTABLISHMENT	Mean of (C)																						
	Mean	124		4.2	100.6	100.8	100.5	99.1	101.3	97.1	102.9	102.8	99.3	100.3	101.9	100.8	102.0	101.7	99.0	102.4	97.5	101.3	97.1
Plant population as % mean of (C) 7 sites in 2022 sown at 9cm spacing 3 sites in 2021 sown at 9cm spacing 0 sites in 2020 sown at 9cm spacing	2022	148			101.2	100.5	100.6	100.8	101.6	98.6	103.8	102.5	97.8	99.9	100.2	98.3	102.2	100.4	97.8	99.5	96.0	100.4	97.1
	2021	121			99.4	100.8	100.8	96.9	102.6	94.5	101.9	105.2	100.9	100.1	104.3	103.2	102.6	103.4	99.7	105.5	98.0	103.9	97.1
	2020	97			101.4	101.6	99.6	99.3	98.4	98.4	102.8	100.6	99.7	101.6	101.5	102.1	100.0	101.6	100.3	103.3	100.1	100.0	97.5
RUST	Mean of (C)																						
	Mean	11			10	12	10	14	15	12	12	13	10	14	13	7	11	10	16	17	11	9	10
% leaf infection Natural infected trials	2022	11			8	16	11	18	17	10	12	14	11	15	14	8	10	9	16	17	8	9	8
	2021	5			3	4	3	4	6	5	5	-	3	7	6	2	4	5	9	10	4	-	4
	2020	18			19	18	15	22	26	21	17	19	18	19	19	12	22	15	24	23	23	16	18
POWDERY MILDEW	Mean of (C)																						
	Mean	1			1	1	1	1	1	1	1	2	1	2	1	1	1	1	2	1	0	2	5
% leaf infection Natural infected trials	2022	1			0	2	1	3	2	1	3	5	1	8	2	0	1	2	7	2	1	1	4
	2021	3			3	1	5	0	3	9	1	-	1	3	8	3	4	0	1	1	0	-	29
	2020	1			0	0	2	1	0	1	0	0	0	0	0	0	0	0	1	1	0	4	10
CERCOSPORA																							
	Mean	4			3	3	4	4	4	5	3	2	3	4	4	2	3	2	6	3	5	3	1
% leaf infection Natural infected trials (mean data re-transformed)	2022	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2021	5			4	4	4	4	4	6	4	4	5	8	7	3	5	3	9	5	6	4	1
	2020	3			3	2	5	5	4	4	3	1	1	1	1	1	2	1	3	1	4	1	1