

RECOMMENDED LIST OF SUGAR BEET VARIETIES 2023 (Based on trials from 2019-2021)

Rz1 rhizomania varieties 3-year data				Daphna	BTS1140	Kortessa KWS	BTS1915	Haryetta KWS	Katjana KWS	Annatina KWS	BTS3610	Wren	Morgan	Stewart	Tawny	Evalotta KWS	Adder	BTS3020	BTS5770	Button	Lacewing	Philina KWS	Maruscha KWS	BTS Smart 9485	Smart Rixta KWS		
STATUS (C) = control variety				R(C)	R(C)	R(C)	PR3	PR1	PR2	PR1	PR1	PR2	PR1	PR1	PR1	PR3	PR1	PR2	PR2	PR1	PR3	PS3(C)	PS1	PS1	PS1		
AYPR/BCN/ALS/VY as claimed by the Breeder				BCN	-	-	-	BCN	BCN	-	-	-	-	-	-	-	-	-	-	BCN	BCN	AYPR	V	ALS	ALS		
ADJUSTED TONNES (Gapped Trials)			T's per ha	Control	95% lsd																						
% Mean of (C)		Mean	112.0	100.0	2.5	101.5	101.1	98.7	107.1	103.5	102.3	102.1	101.6	101.3	101.3	100.7	100.4	100.3	100.3	100.1	99.8	99.2	97.3	100.2	92.1	96.0	92.1
		2021	119.0			102.1	100.7	97.8	106.4	104.3	102.6	101.4	99.2	99.8	100.1	101.1	100.6	99.8	101.2	96.2	97.9	101.5	96.2	100.2	91.5	96.9	92.8
		2020	100.4			101.5	101.2	100.1	108.6	104.6	103.3	102.2	103.2	102.1	101.6	98.8	100.8	101.1	101.2	106.6	101.9	97.5	96.8	99.9	94.2	95.9	89.6
		2019	116.1			100.7	101.4	98.7	106.8	101.6	101.1	102.7	103.1	102.3	102.4	101.9	100.1	100.4	98.6	100.8	100.2	98.1	98.9	100.4	90.9	95.1	93.3
SUGAR YIELD (Gapped Trials)																											
% Mean of (C)		Mean	17.9			101.5	101.1	98.7	107.1	103.5	100.7	102.1	101.6	101.3	101.3	100.7	100.4	100.3	100.3	100.1	99.8	99.2	97.3	100.2	92.1	96.0	92.1
		2021	19.0			102.1	100.7	97.8	106.4	104.3	102.6	101.4	99.2	99.8	100.1	101.1	100.6	99.8	101.2	96.2	97.9	101.5	96.2	100.2	91.5	96.9	92.8
		2020	16.1			101.5	101.2	100.1	108.6	104.6	103.3	102.2	103.2	102.1	101.6	98.8	100.8	101.1	101.2	106.6	101.9	97.5	96.8	99.9	94.2	95.9	89.6
		2019	18.6			100.7	101.4	98.7	106.8	101.6	101.1	102.7	103.1	102.3	102.4	101.9	100.1	100.4	98.6	100.8	100.2	98.1	98.9	100.4	90.9	95.1	93.3
ROOT YIELD (Gapped Trials)																											
% Mean of (C)		Mean	104.3			101.8	100.8	98.8	107.1	104.4	102.1	100.7	100.9	103.7	101.0	99.7	102.0	99.5	103.6	98.5	97.7	100.7	96.5	101.1	90.5	97.8	91.6
		2021	105.5			101.8	100.6	97.9	106.2	105.0	102.7	99.8	99.5	102.0	100.5	99.9	101.8	99.0	102.9	94.9	96.7	102.9	95.8	101.5	90.8	98.8	92.1
		2020	96.5			102.5	101.5	99.0	108.9	106.0	103.2	101.0	101.6	106.6	100.6	98.5	102.0	100.8	104.2	104.1	99.2	98.7	97.5	100.9	92.0	98.5	89.7
		2019	110.9			101.1	100.5	99.5	106.4	102.3	100.5	101.5	101.8	103.4	102.0	100.5	102.3	98.9	103.8	99.1	97.4	100.2	96.4	100.7	89.0	96.2	92.6
SUGAR CONTENT (Gapped Trials)																											
Sugar %		Mean	17.1		0.2	17.1	17.2	17.1	17.1	17.0	17.1	17.4	17.3	16.7	17.2	17.3	16.9	17.3	16.6	17.4	17.5	16.9	17.3	17.0	17.4	16.8	17.2
		2021	18.0			18.0	18.0	18.0	18.0	17.9	18.0	18.3	18.0	17.6	17.9	18.2	17.7	18.1	17.7	18.2	18.2	17.7	18.0	17.8	18.1	17.7	18.1
		2020	16.6			16.4	16.6	16.8	16.6	16.4	16.6	16.9	16.9	16.0	16.8	16.7	16.5	16.7	16.1	17.0	17.1	16.5	16.6	16.5	17.0	16.1	16.6
		2019	16.7			16.7	16.9	16.6	16.8	16.6	16.8	16.9	16.9	16.5	16.8	17.0	16.4	17.0	15.9	17.0	17.2	16.4	17.2	16.7	17.1	16.6	16.8
EARLY SOWN BOLTERS			Mean of (C) (excluding X)	95% lsd	99.9% lsd																						
"X" Unsuitable for sowing BEFORE Mid March																											
Bolters/ha (per 100,000 plants) Sown on or before 5th March		Mean	3,335	4,970	6,420	3,416	3,864	3,064	6,925	2,342	2,155	4,715	3,498	3,989	5,339	2,917	5,368	4,224	5,950	1,388	1,864	1,793	2,090	6,228	7,241	2,327	4,358
		2021	4,321	8,750	13,710	4,188	3,416	5,138	11,303	2,639	2,606	4,610	5,546	5,934	15,069	5,998	7,974	5,324	8,772	3,159	3,624	3,256	3,036	10,143	12,213	2,733	4,152
		2020	718	1,630	2,513	1,203	832	618	2,041	1,128	766	1,104	1,495	1,094	1,455	871	1,838	1,460	2,373	230	493	936	503	2,540	2,412	1,070	1,891
		2019	7,185	11,303	15,225	6,096	10,695	5,653	12,152	3,613	3,677	12,335	4,728	7,260	6,516	3,932	8,908	7,590	9,116	1,864	2,597	1,858	3,732	8,863	11,531	3,560	8,162
NORMAL SOWN BOLTERS			Mean of (C)	95% lsd	99.9% lsd																						
Bolters/ha (per 100,000 plants)		Mean	38	-	117	15	107	15	37	15	0	0	0	65	34	15	15	46	15	21	15	0	34	87	75	0	37
		2021	33	-	187	30	74	0	28	0	0	0	0	69	40	0	33	30	35	0	35	0	33	62	172	0	33
		2020	42	-	274	0	138	0	74	0	0	0	0	64	0	0	0	112	0	67	0	0	62	86	0	0	72
		2019	35	-	123	0	59	28	0	28	0	0	0	28	28	28	0	0	0	0	0	0	62	0	0	0	0
PRE-GAPPING ESTABLISHMENT																											
Plant population as % mean of (C) 2019 seed and 2 sites in 2021 sown at 9cm spacing		Mean	143	3.3		99.1	98.5	98.7	102.4	98.3	100.4	95.7	101.3	100.4	100.4	99.2	102.6	100.8	101.1	101.2	101.3	103.0	101.5	103.8	97.4	97.3	101.8
		2021	138			100.0	100.8	97.0	98.2	97.2	100.8	93.0	100.9	98.9	97.6	98.3	101.0	99.2	101.4	100.7	100.3	102.1	98.8	103.7	98.5	95.2	100.7
		2020	98			101.2	99.0	98.3	100.8	98.7	97.8	97.8	99.1	102.2	101.0	99.7	101.0	97.9	99.4	101.5	102.2	100.9	103.3	102.7	96.9	99.5	100.2
		2019	193			97.9	97.0	100.1	105.3	98.9	101.0	96.8	102.2	100.7	101.9	99.5	103.9	102.7	101.5	101.2	101.6	104.1	102.4	103.9	97.1	97.7	103.0
RUST																											
% leaf infection Natural & inoculated trials (all data re-transformed)		Mean	8			6	5	3	4	7	8	7	5	6	9	10	6	13	5	3	3	9	8	12	5	7	8
		2021	5			4	3	2	3	4	5	4	3	5	6	8	4	8	4	2	2	5	6	9	4	4	4
		2020	8			6	7	5	7	6	8	7	6	5	6	6	4	10	7	4	4	10	5	10	5	7	6
		2019	12			10	7	4	4	14	12	11	10	8	21	16	10	24	4	5	4	16	15	21	8	14	16
POWDERY MILDEW																											
% leaf infection Natural infected trials (all data re-transformed)		Mean	3			1	3	1	3	1	1	3	1	2	1	2	1	3	2	2	2	2	4	3	11	1	2
		2021	4	1 trial		1	5	0	3	0	3	9	1	1	3	1	0	7	4	3	8	8	5	1	29	0	2
		2020	1	3 trials		0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	5	0	1
		2019	6	4 trials		3	5	2	9	2	2	5	3	4	2	3	2	6	2	5	3	3	8	7	14	1	4
CERCOSPORA																											
% leaf infection Natural infected trials (mean data re-transformed)		Mean	2			2	4	1	2	4	3	4	3	3	4	5	1	7	3	2	2	3	3	2	0	4	4
		2021	4			4	4	2	3	5	4	7	5	5	8	10	3	14	7	5	4	8	5	5	1	8	8
		2020	3			2	5	2	3	5	4	4	1	3	1	3	1	3	2	1	1	1	2	1	1	4	1
		2019	1			0	3	1	2	2	2	2	3	1	3	2	1	6	1	0	2	0	2	1	0	2	2

Data in bold from commercial seed. *Note 2020 trials grown in a stand.