

RECOMMENDED LIST OF SUGAR BEET VARIETIES 2019

(Based on trials from 2015-2017)

RZ1 RHIZOMANIA VARIETIES				Sabatina KWS	Salamanca KWS	Cayman	Aurora	Hornet	Haydn	Springbok	Daphna	BTS 1140	Kortessa KWS	Cantona KWS	BTS 860	BTS 3325	Jura	Flixter	Degas	Guaguin	Firefly	Bloodhound	Philina KWS	
Status: (C) = control variety ¹				R	R	R (C)	R	R (C)	R (C)	R (C)	PR2	PR1	PR1	PR3	PR3	PR2	PR1	PR1	PR2	PR1	PR3	PR2	PS1	
AYPR/BCN as claimed by the Breeder				-	-	-	BCN	-	-	-	BCN	-	-	BCN	-	-	BCN	BCN	-	BCN	-	-	AYPR	
CROP YIELDS		MEAN	Control Value																					
Adjusted Tonnes % of C=100% ²	113.7t/ha	100.0		103.9	103.4	100.9	100.7	100.2	99.9	99.4	107.9	107.6	106.2	103.9	103.7	103.1	102.4	101.8	101.6	101.3	100.2	99.5	104.9	
Sugar Yield % of C=100% ²	17.3t/ha			104.1	103.5	101.0	100.9	100.1	99.9	99.4	108.3	108.0	106.0	103.9	103.7	103.0	103.0	102.4	101.5	102.0	100.4	99.7	105.0	
Root Yield % of C = 100% ²	95.5t/ha			105.7	104.0	101.7	102.7	99.2	100.2	99.0	110.4	108.0	107.0	103.8	103.3	102.2	105.0	106.0	100.9	104.0	101.7	100.8	106.0	
Sugar Content %	18.1%			17.8	18.0	18.0	17.8	18.3	18.1	18.2	17.8	18.0	17.9	18.1	18.2	18.3	17.8	17.5	18.2	17.7	17.9	17.9	17.9	
BOLTERS per 100,000 plants/ha		MEAN	95% lsd	99.9% lsd																				
"X" Unsuitable for sowing before Mid March				X	X	-	-	X	-	X	-	X	-	X	X	-	-	-	-	X	-	-	-	X
Early Sowing, before 5 March ³	4,689/ha	6,709	8,476	7,750	8,863	3,699	6,499	7,650	3,295	6,816	5,887	8,078	5,442	7,570	7,185	4,188	3,256	5,109	7,091	2,846	3,365	2,221	15,482	
Normal Sowing	54/ha	138	198	40	33	28	52	52	30	79	84	14	0	99	26	19	9	14	30	23	30	0	117	
PRE-GAPPING ESTABLISHMENT ⁴																								
Control	100%			98.6	101.9	101.6	99.1	99.8	98.7	99.0	100.1	99.0	95.5	99.7	101.5	98.1	97.4	99.3	99.4	99.9	99.7	100.8	98.4	
DISEASE (1 = high leaf infection, 9 = very low leaf infection) ⁵																								
Rust	5.0			6.4	5.7	4.5	4.9	5.6	3.9	5.6	(6.1)	(5.2)	(8.8)	6.0	5.8	(6.6)	(7.2)	2.8	(5.6)	(4.0)	2.9	(4.7)	(3.4)	
Powdery Mildew	(3.6)			(5.0)	(5.6)	(3.7)	(2.4)	(3.6)	(3.7)	(3.4)	(6.1)	-	-	(5.5)	(5.0)	(5.2)	-	(3.8)	(2.7)	-	(5.0)	(2.9)	-	
OTHER CLAIMS																								
AYPR (Aggressive rhizomania)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Y
BCN (as claimed by breeder)				-	-	-	Y	-	-	-	Y	-	-	Y	-	-	-	Y	Y	-	Y	-	-	-
RL SYSTEM																								
Year First Listed				2015	2015	2011	2015	2014	2013	2013	2017	-	-	2016	2016	2017	-	2016	2017	-	2016	2017	-	
BREEDER/UK CONTACT ⁶																								
Breeder				KWS	KWS	SV	SV	SV	STR	SV	KWS	BTS	KWS	KWS	BTS	BTS	SV	MH	STR	STR	SV	SV	KWS	
UK Agent				KWS	KWS	SV	SV	SV	STR	SV	KWS	LG	KWS	KWS	LG	LG	SV	MH	STR	STR	SV	SV	KWS	

Mean of control values include Stingray which is no longer listed.

1. Newly listed varieties (PR1/PS1) have results from three years using approximately 2 kg breeders' seed. Thereafter commercial seed should be used in RL trials. (See supplementary table).

2. Yields based on an average plant population of 108,000 plants/ha in these trials. Differences in yields of less than 3% should be treated with reserve.

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

4. Differences of 4% or less in the variety establishment scores are not statistically significant.

5. Observations taken from inoculated trials not taken to yield.

6. BTS = Betaseed, KWS = KWS UK Ltd, LG = Limagrain UK Ltd, STR = Strube Sugar Beet UK Ltd, SV = SESVanderHave UK Ltd, MH = MariboHilleshog

Full dataset available at www.bbroy.co.uk