Minutes of Northern Regional Variety Committee meeting

Cairns Colonial Club – 31st March 2022

ATTENDEES (TOTAL 37):

N RVC MEMBERS (VOTING)

MILLER REPRESENTATIVES:

☑	Graham Cripps (2022 proxy for P Chohan)	**TAB**
☑	Rebecca McHardie (2022 proxy for P DiBella)	**MOS**
☑	Matt Hession	**MUL**
☑	Mick Ward	**SJO**
☑	Gerry Borgna	**TUL**

GROWER REPRESENTATIVES:

☑	Drewe Burgess	**TAB**
☑	Brett Coulthard	**MOS**
☑	Paul Gregory	**MUL**
☑	Joseph Marano (online via Teams)	**SJO**
☑	David Singh	**TUL**

N RVC MEMBERS (NON-VOTING)

In-person or online:

☑	Andrew Rigby	**SRA**
☑	Barry Stubbs	**CANEGROWERS Cairns**
☑	Belinda Billing	**FARMACIST**
☑	Bob Stewart	**IBCPS**
☑	Dayna Scapin	**MSF**
☑	Evelyn Matthews	**CANEGROWERS Mossman**
☑	Helen Cook	**SRA**
☑	Joel Tierney	**CANEGROWERS Cairns**
☑	John Edwards	**TSL**
☑	John Ferrando	**Co-operator / CANEGROWERS Cairns**
☑	Kate Scullard	**MAS**
☑	Mick Camilleri	**IBCPS/ACFA**
☑	Michael Porta	**MSF**
☑	Michael Porta	**MSF**
☑	Nader Sallam	**MAS**
☑	Noel Lingard	**TCPSL**
☑	Peter Sutherland	**TCPSL**
☑	Rob Magarey	**SRA**
☑	Stephen Calcagno	**CANEGROWERS Cairns**
☑	Steven Bonso	**IBCPS / CANEGROWERS Cairns**
☑	Vivien Dunne	**SRA**

ADMINISTRATIVE:

☑	Greg Shannon (Chair)	**TSL**
☑	Felicity Atkin (Presenter)	**SRA**
☑	Jason Eglinton (Presenter)	**SRA**
☑	Rhylee Pendrigh (Presenter)	**SRA**
☑	Paul Calcino (Minutes taking)	**SRA**
☑	Gavin Rodman (Presenter)	**SRA**

APOLOGIES:

☑	Peter DiBella	**FNM**
☑	Peter Chohan	**MSF**
☑	Bruno Ghidella	**Co-operator**
☑	Jason Salvetti	**Co-operator**
☑	Eddie Skocaj	**Co-operator**
☑	Kevin Sues	**Co-operator**
☑	Drew Watson	**Co-operator**
☑	Graham Whittaker	**Co-operator**
☑	Debra Telford	**CANEGROWERS Innisfail**

Agenda Item	
1	**Welcome by Chair (Greg Shannon)**
	General introduction and Agenda for the day. Roll call of Voting Members and list of Apologies (see above).
2	**Minutes of previous meeting**
	Motion from the Chair that the minutes of the previous meeting be accepted as a true and correct record. Moved: David Singh Seconded: Drewe Burgess Carried
	Business arising from previous minutes
	None arising.
3	**Update on Clean Seed Sales trends (Jason Eglinton)**
	Action: • Jason to update Northern RVC on proportion of crop production from New Varieties for the Northern region at the 2023 meeting
4	**Recently released varieties (Felicity Atkin)**
	• 75% of the cane delivered to all Northern mills in 2021 was from varieties either intermediate or intermediate-susceptible to Pachymetra root rot. • Additionally, 5 of the 9 varieties released over the past 6 years are Pachymetra resistant, and only 3 varieties are resistant to all our major diseases, including Pachymetra root rot. • Pachymetra resistance and CCS relative to Q200ϕ and Q208ϕ without compromising TCH continue to be considered strongly when assessing upcoming clones for potential commercial release.

Variety	Year	Origin	Diseases			Relative to Q208ϕ			Floc
			Sm	Pa	LS	TCH	CCS	TSH	
SRA28ϕ	2020	SmutBuster	I-R	R	R				
SRA27 ***	2019	Burdekin	I-R	I-S	R				
SRA26ϕ	2019	Northern	R	R	R				
SRA25ϕ	2019	Northern	I-S	R	R				
SRA16ϕ	2018	SmutBuster	R	R	R				
SRA15ϕ	2018	SmutBuster	I-S	I-R	R				
SRA10ϕ	2017	Northern	I	I-R	R				
SRA7ϕ	2016	Northern	I-R	I	R				
SRA6ϕ	2016	Northern	R	R	R				

Updated SRA trial information on recently released varieties (Felicity Atkin)

- Recently released varieties continue to perform as expected both in ratoon crops and in repeated trials.

SRA26Φ and SRA28Φ RELEASED in 2019 and 2020 – N 2018, 2019 & 2020 FAT series:
Relative to mean of the standards (12*P, 8*1R & 4 2R crops)
Standards – Q200Φ, Q208Φ, Q231Φ *, Q241Φ, Q250Φ and Q253Φ *

Clone/variety	TCH (Diff stds)	CCS (Diff stds)	T CCS / Ha (Diff stds)	% Fibre (Diff stds)	rEGV	Sm	Pa	LS
SRA26Φ	**5**	**0.4**	**1.2**	**-0.5**	**10.9**	**R**	**R**	**R**
SRA28Φ	**9**	**-0.4**	**1.1**	**-0.3**	**10.4**	**I-R**	**R**	**R**
Q250Φ	-8*	0.8**	-0.7	-1.0**	10.2	R	I	R
Q200Φ	0	0.0	0.0	1.5**	9.9	I	I	R
Q208Φ	1	-0.4	-0.2	-0.1	9.8	I-R	I	R

*(NB – 12 TCH ≈ 1 unit CCS; * significantly different to STDs; ** highly significant)*
sugarresearch.com.au

SRA26Φ and SRA25Φ RELEASED in 2019 – N 2017 and 2019 FAT series:
Relative to mean of the standards (8*P, 8*1R & 4*2R crops)
Standards – Q200Φ, Q208Φ, Q231Φ *, Q241Φ, Q250Φ and Q253Φ *

Clone/variety	TCH (Diff stds)	CCS (Diff stds)	T CCS / Ha (Diff stds)	% Fibre (Diff stds)	rEGV	Sm	Pa	LS
SRA26Φ	**8**	**0.2**	**1.5**	**-0.5**	**11.0**	**R**	**R**	**R**
Q250Φ	-5	0.8**	0.0	-1.1**	10.4	R	I	R
SRA25Φ	**5**	**-0.1**	**0.7**	**0.4**	**10.3**	**I-S**	**R**	**R**
Q208Φ	1	-0.2	0.0	0.0	9.9	I-R	I	R
Q200Φ	-2	0.0	-0.3	1.4**	9.8	I	I	R

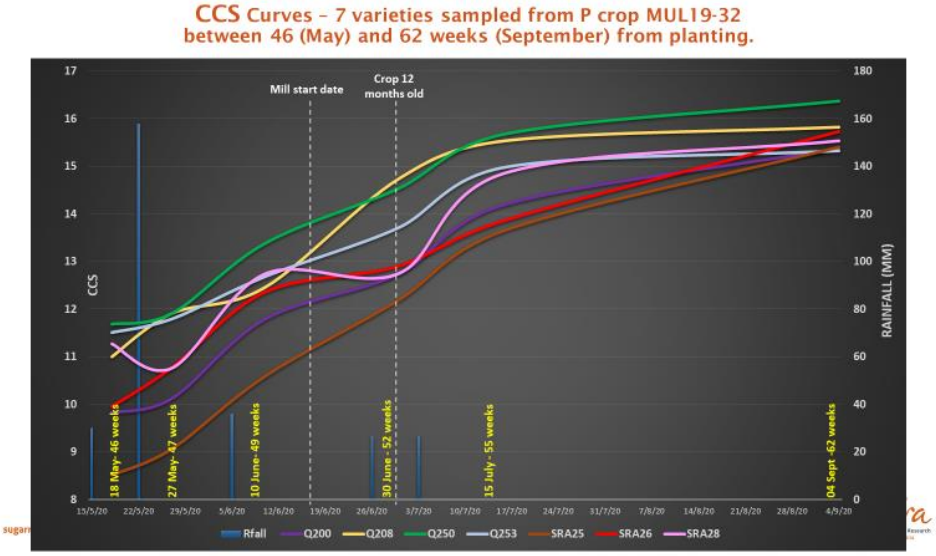
*(NB – 12 TCH ≈ 1 unit CCS; * significantly different to STDs; ** highly significant)*
sugarresearch.com.au

SRA26Φ & SRA27 RELEASED in 2019, SRA28Φ RELEASED in 2020 – 2019 Northern FAT series:
Relative to mean of the standards (P & 1R crop)
Standards – Q200Φ, Q208Φ, Q241Φ, Q250Φ and Q253Φ.

Clone/variety	TCH (Diff stds)	CCS (Diff stds)	T CCS / Ha (Diff stds)	% Fibre (Diff stds)	rEGV	Sm	Pa	LS
SRA26Φ	**11***	**0.4**	**2.0**	**-0.2**	**11.2**	**R**	**R**	**R**
SRA28Φ	**15***	**-0.2**	**2.1**	**-0.2**	**10.9**	**I-R**	**R**	**R**
Q250Φ	-5	0.8**	-0.1	-1.1**	10.5	R	I	R
Q200Φ	-2	-0.1	-0.4	1.8**	9.8	I	I	R
Q208Φ	-1	-0.3	-0.4	-0.2	9.6	I-R	I	R
Q253Φ	1	-0.3	-0.1	-0.2	9.5	R	R	R
SRA27	**3**	**-0.7****	**-0.2**	**-1.2****	**9.4**	**I-R**	**I-S**	**R**

sugarresearch.com.au
*(NB – 12 TCH ≈ 1 unit CCS; * significantly different to STDs; ** highly significant)*

- The 2021 FAT and RVT CCS results were impacted due to heavy suckering and crop damage from Cyclone Niran. Commercial standards in trials performed similar to commercial results where their CCS was relatively lower and no maturity peak were observed.
- Maturity sampling from the 2021 harvest sampling was therefore not presented as it was not a representative year and was hard to interpret results. Instead, the 2020 maturity graph was presented along with suckering information on commercial varieties from a low suckering year (2020) and a high suckering year (2021) for direct comparison.
- Initial results indicate that SRA26Φ followed a similar maturity curve to Q200Φ while SRA28Φ showed a pronounced CCS change in response to rainfall events, indicating it was rapidly adding biomass relative to the other varieties, similar to Q253Φ.



Clone/variety	19 FAT series	
	P - 2020 Harv (av Su year)	1R - 2021 Harv (high Su year)
Q200Φ	4%	7%
Q208Φ	6%	8%
Q240Φ	8%	10%
Q253Φ	6%	9%
QS09-7559	**4%**	**6%**
SRA26Φ	3%	5%
SRA28Φ	5%	11%
SRA9Φ	4%	6%

rEGV penalties via AppGr

% Su Wt	CCS Penalty
0 - 5.4	0
5.5 - 10.4	-0.5
10.5 - 15.4	-1
15.5 - 20.4	-1.5

Recently released varieties from other regions (Felicity Atkin)

- Update on performance of newly released varieties from other regions in either their region of origin or in Northern FATs.

- SRAW24Φ (H RELEASE 2019)
- SRA29Φ (S RELEASE 2020; NSW RELEASE 2021)
- SRAW30Φ (NSW RELEASE 2020)
- SRA31Φ (H RELEASE 2021)
- SRAW33 (S RELEASE 2021)
- SRA34Φ (NSW RELEASE 2021)
- SRA35Φ (NSW 2-YEAR RELEASE 2021)
- SRA36 (H RELEASE 2021 pending Leaf Scald rating)

- Productivity data, disease ratings, milling qualities (Floc and Fibre Quality) from the varieties' region of origin, plus the productivity data from Northern trials were presented and discussed.

Update other SRA varieties – Northern performance

Variety	Status	Information from origin of Release									N FAT Info		Comments	2022 RVC Decision
		TCH	CCS	rEGV	Sm	Pa	LS	Floc	% Fibre	Fibre Qual	N FAT Series	N rEGV		
WSRA24Φ	Herbert 2019 Release	6	-1.1	9.6	R	R	R		-1.1	OK	20	8.9	Delays in testing in N due to poor germination; -1.2 to -2.0 units CCS	
SRA29Φ	Southern 2020 Release; NSW 2021 Release	4	0.0	10.4	I-R	I-R	R		-0.5	OK	20	7.8	-2.1 CCS; heavy suckering; some lodging & rat damage	
SRAW30Φ	NSW 2Yr 2020 Release	26	0.5	11.7	R	R	R		-	OK	20	8.7	Introgression clone for NSW 2Yr crops; -1.0 CCS; heavy lodged & some suckers	
SRA31Φ	Herbert 2021 Release	-1	0.4	10.4	R	R	R		-0.8	OK	17	9.8	Av TCH, ↓ CCS (inconsistent performance across harvests)	
SRAW33	Southern 2021 Release	6	0.7	11.2	R	I-R	R		0.0	OK	18	9.5	Av TCH, ↓ CCS, poor appearance at harvest (heavily lodged & damaged)	
SRA34Φ	NSW 2021 Release	5	0.2	10.7	I	R	R		-	OK	20	9.5	Av TCH, ↓ CCS, similar suckering & arrowing to SRA28Φ	
SRA35Φ	NSW 2Yr 2021 Release	13	0.2	11.0	I-S	I-R	R		-	OK	15	10.5	Discarded in 2018 due to severe smut observed in 2R	
SRA36	Herbert 2021 Release	8	-0.6	10.1	R	R	R		-1.2	OK	17	9.5	Av TCH, ↓ CCS (CCS -1.1)	

sugarresearch.com.au

- WSRA24Φ, SRA29Φ, SRAW30Φ and SRA34Φ are in current 2020 FATs and will continue to be assessed for productivity traits.

5 New Clones Presentation (Rhylee Pendrigh)

- Two clones considered for RELEASE in 2022
  - QS09-7559
  - SRA32
- Four clones considered for MAXIMUM PROPAGATION in 2022
  - QS07-8513 (was approved for ACCELERATION in 2020 but was not transferred due to material not complying with the SRA Variety Audit process; reassessed and transferred as an ACCELERATED clone in 2021)
  - QN11-5047
  - QS10-8459
  - SRA9Φ
- No clones considered for ACCELERATION in 2022
  - Clones assessed were either not competitive in 2R for TCH, had unfavourable disease ratings to Leaf Scald (above our regional threshold), had unacceptable fibre content and fibre quality, or a combination thereof.

Clones considered for RELEASE in 2022: QS09-7559 & SRA32

- Overview of QS09-7559:
  - CCS equal to Q200$^{\Phi}$ and Q208$^{\Phi}$ and TCH and TSH greater than Q200$^{\Phi}$ and Q208$^{\Phi}$.
  - No apparent milling issues related to Fibre Quality but Floc results are moderately high and variable.
  - Intermediate-resistant to Smut and Pachymetra, and resistant and Leaf Scald.
  - Fast and reliable germination compared to major commercial varieties for quick crop establishment.
  - Good performance in both Northern and Herbert FATs and the Mossman RVT indicate it possibly has some broad adaptability.
  - Positive rEGV – more profitable to whole sugar value chain for the Northern region.
- Overview of SRA32:
  - Considered for early RELEASE due to its impressive/strong 1R performance in Northern FATs and RVTs, as well as continued to perform well in ratoons in the Burdekin FATs.
  - TCH and TSH significantly greater than Q200$^{\Phi}$ and Q208$^{\Phi}$.
  - CCS lower than Q200$^{\Phi}$ and Q208$^{\Phi}$ and fibre content higher than Q200$^{\Phi}$.
  - No apparent milling issues related to Fibre Quality or Floc (GGM levels similar to Q208$^{\Phi}$ and KQ228$^{\Phi}$).
  - Intermediate to smut and Pachymetra with some smut observed on the Tableland. Resistant to Leaf Scald.
  - Positive rEGV – more profitable to whole sugar value chain for the Northern region.

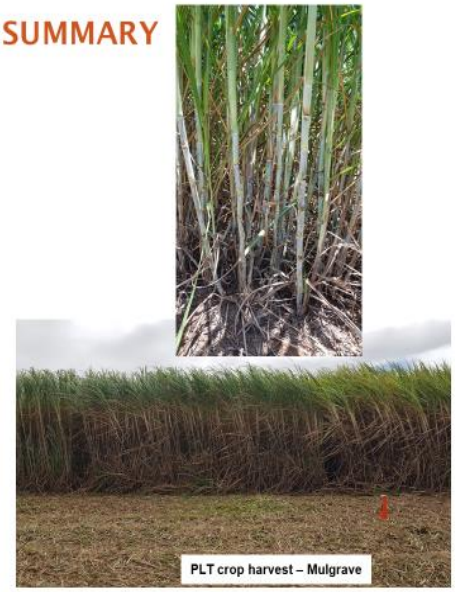
Decision: To RELEASE or HOLD or DISCARD (unanimous vote needed)

			(# votes)		(# votes)		(# votes)	***Action:***
Varieties:	**QS09-7559**	☑ RELEASE	(10)	☐ HOLD	(0)	☐ DISCARD	(0)	RELEASE
	SRA32	☑ RELEASE	(10)	☐ HOLD	(0)	☐ DISCARD	(0)	RELEASE

Actions:

- **RELEASE** – Northern RVC approves the RELEASE of QS09-7559 and SRA32 to the Northern Coastal and Tableland region.
- SRA32 will be available to Tableland growers in 2022 through whole stalk distribution.
- SRA32 needs to be fast-tracked to Coastal PSOs for a 2023 or 2024 distribution.
  - SRA has offered to supply Coastal PSOs 300 Tissue Culture plantlets to be hardened at SRA Meringa with a targeted delivery window of late-September/early-October to PSOs.
  - Additional plantlets are also available for purchase for same delivery time at PSO's cost.
  - Up to 300 stalks will also be transferred to CSP pending material availability from SRA's clean seed plot at Kevin Sues.
- QS09-7559 has been allocated the new variety name **SRA37**.

QS09-7559 (QC82-663 x Q205ϕ) : SUMMARY



Overall Performance: (relative to Q208ϕ)

- TCH: Greater than Q208ϕ
- CCS: Equal to Q208ϕ
- TSH: Greater than Q208ϕ
- rEGV: 10.5

Disease:

- Smut: Intermediate – Resistant
- Pachymetra: Intermediate – Resistant
- Leaf Scald: Resistant

Milling:

- Floc: Results have been variable
- Fibre Quality: No apparent issues
- % Fibre: within acceptable levels

sugarresearch.com.au

SRA32 (QN80-3425 x QN86-2168):

Overall Performance: (relative to Q200ϕ & Q208ϕ)

- TCH: Greater than Q200ϕ and Q208ϕ
- CCS: Lower than Q200ϕ and Q208ϕ
- TSH: Greater than Q200ϕ and Q208ϕ
- rEGV: 10.7

Disease:

- Smut: Intermediate
- Pachymetra: Intermediate
- Leaf Scald: Resistant

Quality:

- Floc: Similar to Q208ϕ & KQ228ϕ
- Fibre Quality: No apparent issues (?) but 0.5 units fibre & + 4.0 TFH greater than Q200ϕ

- Moderate suckering; similar germination rate as Q208
- Grown under permit on Tablelands- Semi-comm P crop in 2021

sugarresearch.com.au

Variety	Year	Origin	Diseases			Relative to Q208ϕ			Floc
			Sm	Pa	LS	TCH	CCS	TSH	
QS09-7559	2022?	SmutBuster	I-R	I-R	R				
SRA32	2022?	SmutBuster	I	I	R				
SRA28ϕ	2020	SmutBuster	I-R	R	R				
SRA27 ***	2019	Burdekin	I-R	I-S	R				
SRA26ϕ	2019	Northern	R	R	R				
SRA25ϕ	2019	Northern	I-S	R	R				
SRA16ϕ	2018	SmutBuster	R	R	R				
SRA15ϕ	2018	SmutBuster	I-S	I-R	R				
SRA10ϕ	2017	Northern	I	I-R	R				
SRA7ϕ	2016	Northern	I-R	I	R				
SRA6ϕ	2016	Northern	R	R	R				

	Clones considered for MAXIMUM PROPAGATION in 2022: QS07-8513, QN11-5047, QS10-8459 and SRA9$^{\Phi}$

	• Overview of QS07-8513:
	  ○ TCH competitive with Q200$^{\Phi}$ and Q208$^{\Phi}$ but has been inconsistent.
	  ○ CCS greater than Q200$^{\Phi}$ and Q208$^{\Phi}$, and equal to Q250$^{\Phi}$.
	  ○ TSH equal to or greater than Q200$^{\Phi}$ and Q208$^{\Phi}$.
	  ○ Significantly low percent (%) fibre relative to current commercial varieties (~1.0 units fibre below Q250$^{\Phi}$).
	  ○ Tonnes Fibre per hectare (TFH) low.
	  ○ No apparent Fibre Quality issues.
	  ○ Sugar Quality consistently high – GGM levels similar to CP51-21.
	  ○ Intermediate to smut, intermediate-resistant to Pachymetra and resistant to Leaf Scald.
	  ○ Positive rEGV – more profitable to whole sugar value chain for the Northern region.
	  ○ Untidy visual appearance and presentation at harvest and in propagations including diseased and deformed tops & suckering.
	• Overview of QN11-5047:
	  ○ TCH equal to or greater than Q200$^{\Phi}$ and Q208$^{\Phi}$.
	  ○ CCS greater than Q200$^{\Phi}$ and Q208$^{\Phi}$ with early CCS potential to replace Q250$^{\Phi}$ as a high early CCS variety.
	  ○ No apparent Fibre Quality issues.
	  ○ Sugar Quality acceptable – GGM levels similar to Q200$^{\Phi}$ and KQ228$^{\Phi}$.
	  ○ Intermediate resistance to smut, resistant to Pachymetra and Leaf Scald. Smut often observed in propagations and trials, including higher incidence of smut seen in dry area of Mossman at Bonnie Doon.
	  ○ Positive rEGV – more profitable to whole sugar value chain for the Northern region.
	• Overview of QS10-8459:
	  ○ TCH equal to Q200$^{\Phi}$ and Q208$^{\Phi}$.
	  ○ CCS and TSH competitive with Q200$^{\Phi}$ and Q208$^{\Phi}$.
	  ○ No apparent Fibre Quality issues.
	  ○ Sugar Quality acceptable – GGM levels lower than standards.
	  ○ Intermediate to smut, intermediate-resistant to Pachymetra and Leaf Scald.
	  ○ Positive rEGV – more profitable to whole sugar value chain for the Northern region.
	• Overview of SRA9$^{\Phi}$:
	  ○ TCH greater than Q200$^{\Phi}$ and Q208$^{\Phi}$. Significantly higher TCH at all sites especially in the super-wet sites of Babinda and South Johnstone.
	  ○ CCS lower than Q200$^{\Phi}$ and Q208$^{\Phi}$.
	  ○ No apparent Fibre Quality issues (no negative reports from Central mills regarding its millability).
	  ○ Sugar Quality acceptable – similar GGM levels to Q208$^{\Phi}$.
	  ○ Intermediate to smut, resistant to Pachymetra and Leaf Scald. Smut observations have varied (but indicate natural infection

levels similar levels to Q208Φ; no smut observed in FATs).
  - Positive rEGV – more profitable to whole sugar value chain for the Northern region.

Decision: To MAXIMUM PROPAGATE or HOLD or DISCARD (majority vote needed)

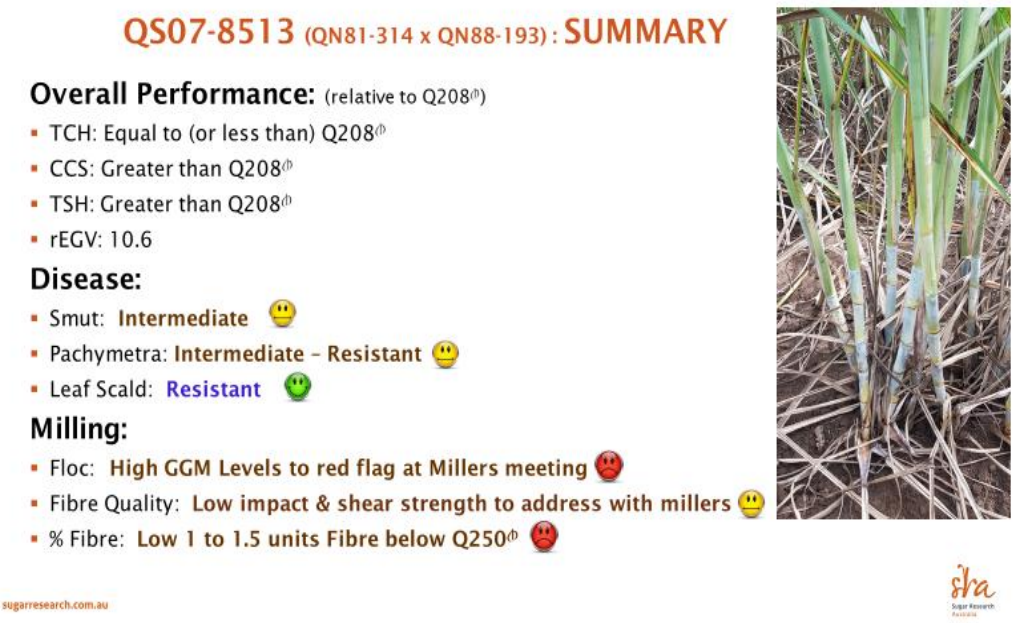
			(# votes)		(# votes)		(# votes)
Varieties:	**QS07-8513**	☐ MAX PROP	(1)	☐ HOLD	(0)	☑ DISCARD	(9)
	QN11-5047	☑ MAX PROP	(10)	☐ HOLD	(0)	☐ DISCARD	(0)
	QS10-8459	☑ MAX PROP	(10)	☐ HOLD	(0)	☐ DISCARD	(0)
	SRA9Φ	☑ RELEASE	(10)	☐ HOLD	(0)	☐ DISCARD	(0)

Comments:

- SRA9Φ was fast-tracked and approved for commercial release in 2022 bypassing the Maximum Propagation stage due to its continued strong performance in FATs.

Actions:

- **MAXIMUM PROPAGATION** – Northern RVC approves to MAXIMUM PROPAGATE QN11-5047 and QS10-8459 for possible release in 2023.
- **RELEASE** – Northern RVC approves to RELEASE SRA9Φ in 2022.
  - Northern PSOs will not have sufficient SRA9Φ to distribute to growers until 2023 due to it being fast-tracked to release.
- **DISCARD** – Northern RVC votes to DISCARD QS07-8513 as it was regarded high risk for millability and marketability, inconsistent TCH and untidy presentation at harvest – QN11-5047 was seen as safer high CCS option.
- Additional Floc and Fibre Quality data to be collected in 2022 for review at the 2023 Northern RVC Meeting for QN11-5047 and QS10-8459.
- Continue to monitor field observations of smut in QN11-5047 and report back to RVC in 2023.



QN11-5047 (QC83-626 x QC90-353) : SUMMARY

Overall Performance: (relative to Q208ф)

- TCH: Greater than Q208ф
- CCS: Greater than Q208ф (with EARLY CCS)
- TSH: Greater than Q208ф
- rEGV: 10.9

Disease:

- Smut: **Intermediate – Resistant**
- Pachymetra: **Resistant**
- Leaf Scald: **Resistant**

Milling:

- Floc: **ONLY 2 Results no red flags**
- Fibre Quality: **No apparent issues**
- % Fibre: **Within acceptable levels**

sugarresearch.com.au

QS10-8459 (QN86-2139 x QH89-241) : SUMMARY

Overall Performance: (relative to Q208ф)

- TCH: Equal to Q208ф
- CCS: Greater than Q208ф
- TSH: Greater than Q208ф
- rEGV: 10.6

Disease:

- Smut: **Intermediate**
- Pachymetra: **Intermediate – Resistant**
- Leaf Scald: **Intermediate – Resistant**

Milling:

- Floc: **Low compared to STDs (2 results ONLY)**
- Fibre Quality: **No apparent issues**
- % Fibre: **Low with values ranging between SRA26ф & Q250ф**

sugarresearch.com.au

PLT crop harvest – Mulgrave

SRA9ф (QN81-289 x Q166) : SUMMARY

Overall Performance: (relative to Q208ф)

- TCH: Greater than Q208ф
- CCS: Equal to (or less than) Q208ф
- TSH: Greater than Q208ф
- rEGV: 10.9

Disease:

- Smut: **Intermediate**
- Pachymetra: **Resistant**
- Leaf Scald: **Resistant**

Milling:

- Floc: **Acceptable results**
- Fibre Quality: **No apparent issues**
- % Fibre: **Within acceptable levels**

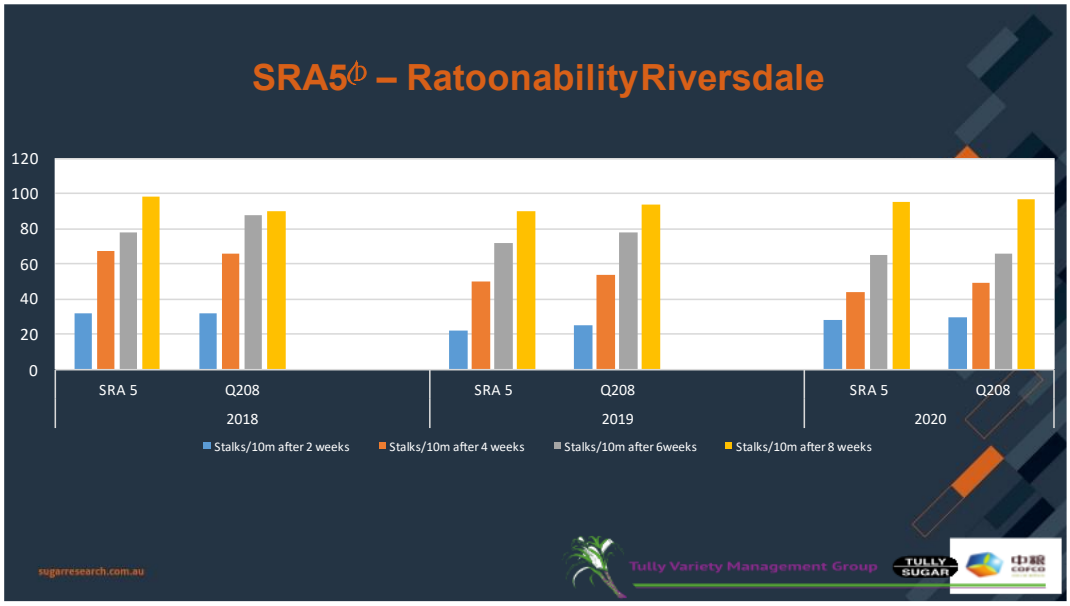
sugarresearch.com.au

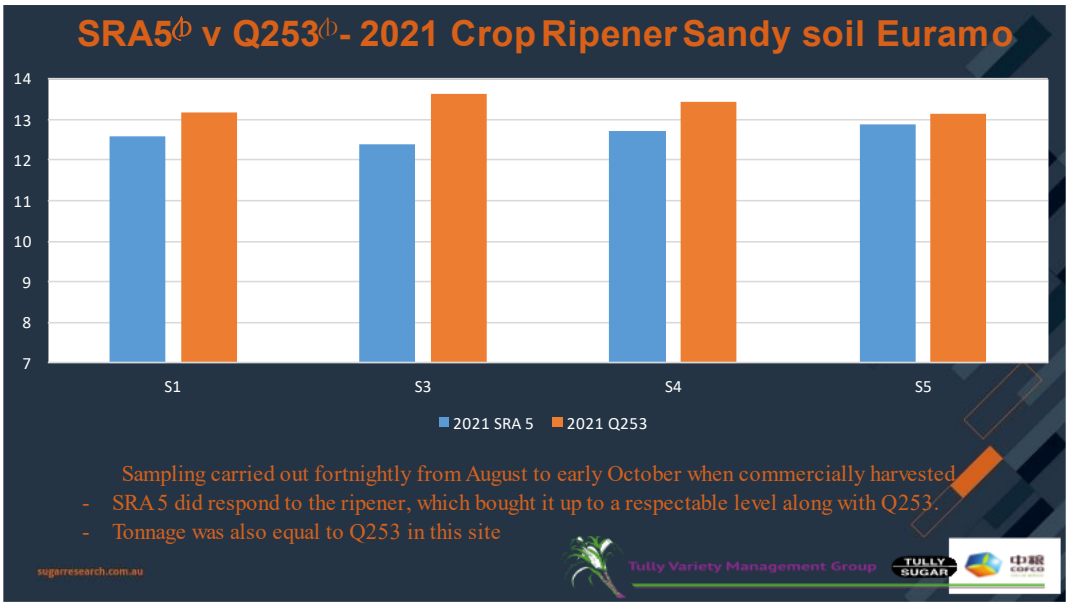
Variety	Year	Origin	Diseases			Relative to Q208ϕ			Floc
			Sm	Pa	LS	TCH	CCS	TSH	
QN11-5047	2023?	Northern	I-R	R	R				
QS07-8513	DISCARD	SmutBuster	I-R	I	R				
QS10-8459	2023?	SmutBuster	I	I-R	I-R				
SRA9ϕ	2022	Central	I	R	R				
QS09-7559	2022	SmutBuster	I-R	I-R	R				
SRA32	2022	SmutBuster	I	I	R				
SRA28ϕ	2020	SmutBuster	I-R	R	R				
SRA27 ***	2019	Burdekin	I-R	I-S	R				
SRA26ϕ	2019	Northern	R	R	R				
SRA25ϕ	2019	Northern	I-S	R	R				
SRA16ϕ	2018	SmutBuster	R	R	R				
SRA15ϕ	2018	SmutBuster	I-S	I-R	R				
SRA10ϕ	2017	Northern	I	I-R	R				
SRA7ϕ	2016	Northern	I-R	I	R				
SRA6ϕ	2016	Northern	R	R	R				

6 Other business arising

Review and discussion of SRA5ϕ and SRA14ϕ for possible RELEASE based on results from Tully Variety Management Group (TVMG) – TVMG data (Greg Shannon) and SRA trial data (Rhylee Pendrigh)

- SRA5ϕ
  - TVMG aware it is a low CCS variety which didn't perform in SRA's Northern FATs.
  - TVMG trialled SRA5ϕ because of yield potential seen in the Herbert on sandy soils & tested it with ripeners.
  - SRA5ϕ did respond to ripeners and recommend it be approved for specific situations in the Tully region for sandy soils harvested late or with crop ripener application.





SRA5Φ Northern FATs Performance –2009 & 2016 FAT series
Relative to mean of the standards (mean of P, 1R & 2R)

2009

Clone/variety	TCH (Diff stds)	CCS (Diff stds)	TSH (Diff stds)	% Fibre (Diff stds)	rEGV	Sm	Pa	LS
Q200Φ	-2	0.2	-0.1	1	10.4	I	I	R
Q208Φ	-1	0.1	0	-0.4	10.1	I-R	I	R
SRA5Φ	4	-2.3**	-1.6	2.4**	8.6	I-R	I	I-R

2016

Clone/variety	TCH (Diff stds)	CCS (Diff stds)	TSH (Diff stds)	% Fibre (Diff stds)	rEGV	Sm	Pa	LS
Q200Φ	0	0.0	0.1	1.7*	10.2	I	I	R
Q250Φ	-5	0.7**	-0.2	-1.1*	10.1	R	I	R
Q208Φ	-1	0.1	0	-0.2	9.9	I-R	I	R
SRA5Φ	6	-2.5**	-1.4	3.3**	8.0	I-R	I	I-R

*(NB – 12 TCH ≈ 1 unit CCS; * significantly different to STDs; ** highly significant)*

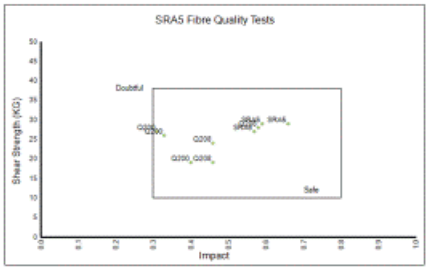
sugarresearch.com.au

SRA5Φ (H72-8597 x QN89-109):

Overall Performance: (relative to Q208Φ)
- TCH: Equal to Q208Φ
- CCS: Less than Q208Φ
- TSH: Less than Q208Φ
- rEGV: 8.3

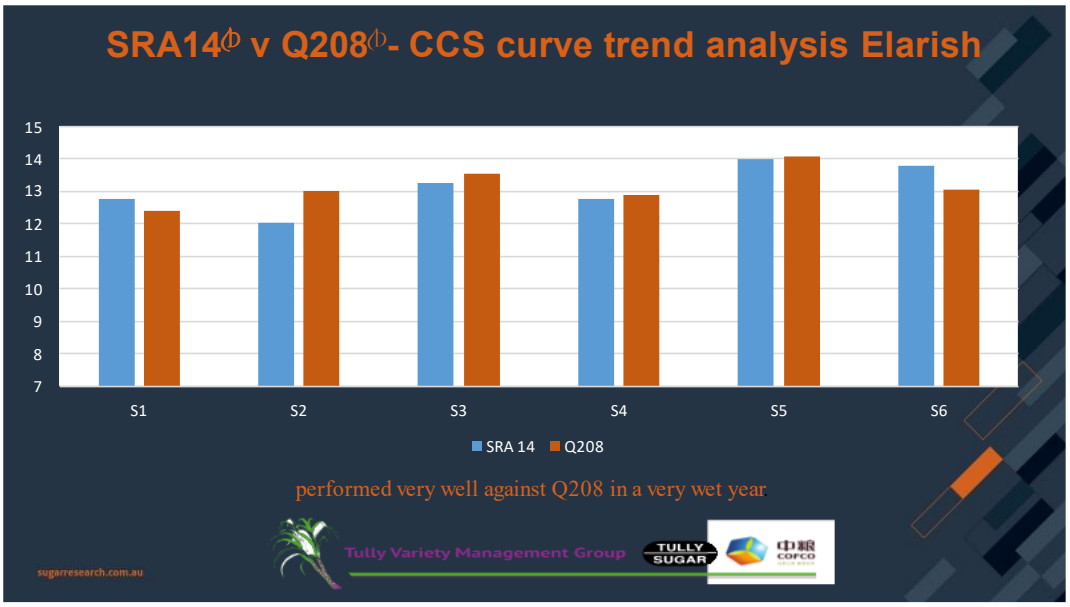
Disease:
- Smut: Intermediate-Resistant
- Pachymetra: : Intermediate
- Leaf Scald: Intermediate

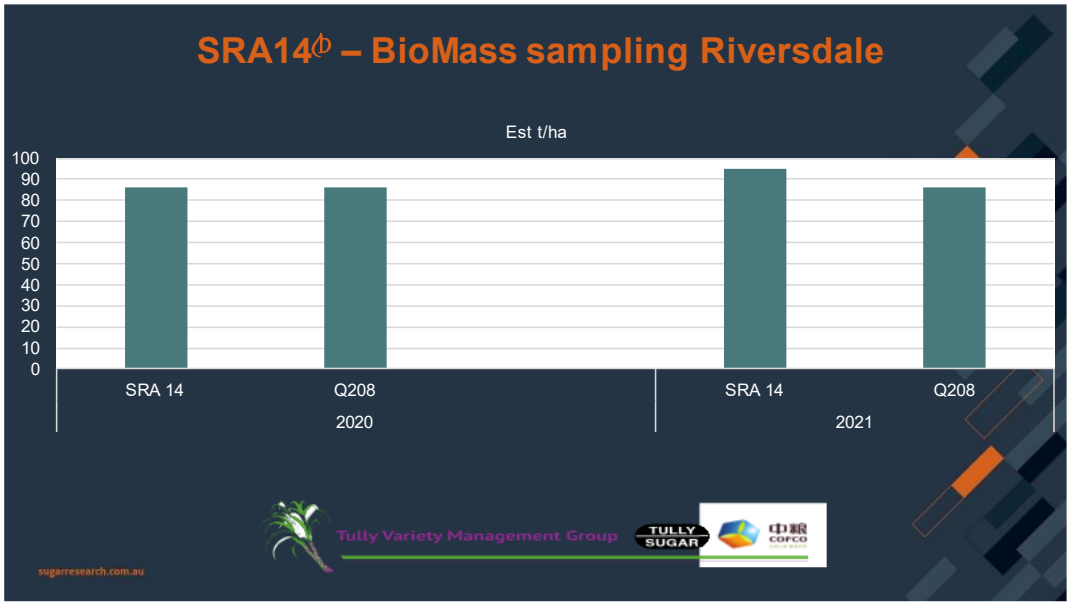
Quality:
- Floc: Similar GGM levels to KQ228Φ & Q200Φ
- Fibre Quality: No apparent issues- but % short fibre lower than Q200Φ & Q208Φ; high % Fibre



Clone	Location	Year	Impact	Shear Strength	% Short Fibre	% Fibre
Q200Φ*	1R FAT	2015	0.31	27	48	14.6
Q208Φ*	1R FAT	2015	0.58	28	47	15.4
SRA5Φ	1R FAT	2015	0.66	29	32	16.7
Q200Φ*	P Prop	2015	0.40	19	60	17.2
Q208Φ*	P Prop	2015	0.46	24	60	13.9
SRA5Φ	P Prop	2015	0.59	29	41	18.1
Q200Φ*	P FAT	2015	0.33	26	42	16.7
Q208Φ*	P FAT	2015	0.46	19	49	12.4
SRA5Φ	P FAT	2015	0.57	27	28	18.7

- SRA14Φ
  - TVMG trialled SRA14Φ as a Pachymetra resistant alternative for growers in the Feluga, El Arish and Lower Tully districts (High Pachymetra risk sub- districts).
  - SRA14Φ compared well to Q208Φ in strip trials.
  - TVMG recommend it only be approved for specialist situations in high-risk Pachymetra subdistricts of the Tully region.
  - However, its adoption will be very minimal as more productive Pachymetra resistant varieties are now available, including SRA26Φ.





Update other SRA varieties – Northern performance (2020 RVC)

Variety	Status	Information from origin of Release									N FAT Info		Comments	2020 RVC Decision
		TCH	CCS	rEGV	Sm	Pa	LS	Floc	% Fibre	Fibre Qual	N FAT Series	N rEGV		
SRA8	Burdekin 2016 Release	-4	0.3	10.3	I-S	I	R		-0.5	OK?	13/16/17	8.9	TCH decline in ratoons (N FATs)	✖
SRA9Φ	Central 2017 Release	6	-0.2	10.5	I-S	R	R		-0.3	OK	17/19*	10.7	High TCH, low CCS; more Smut than Q200Φ observed on Meringa	✓
SRA11Φ	Southern 2018 Release	7	0.2	10.8	R	R	R		-1.3	OK?	16	9.3	TCH decline in ratoons (N FATs); heavy ARR; flat in TUL & BAB; low fibre cane	✖
SRA14Φ	Herbert 2018 Release	-3	0.3	10.2	I-R	R	R		-2.7	OK?	11/14	9.7	Observed TCH decline in ratoons (2011 N FATs); low fibre cane	✖
WSRA17Φ	Burdekin 2018 Release	6	-0.4	9.5	I-S	I	R		0.7	OK	18	8.1	Until 2018 was Sm Susceptible until; -7 TCH & -1.2 CCS (N FATs)	✖
SRAW18Φ	NSW 2Yr 2019 Release	12	-0.5	10.1	I-R	I	R		-	OK	20*	n/a	Introgression clone for NSW 2Yr crops; % Fibre similar to Q200Φ	✖
SRA19Φ	Southern 2019 Release	8	-0.9	10.1	I	R	R		0.0	OK	08/11	9.1	QN clone; discarded in N in 2014 due to average TCH, below av CCS -0.9	✖
SRA20Φ	Southern 2019 Release	7	-1.0	9.8	R	I	I		-0.6	OK	18	7.6	-9 TCH & -1.6 CCS (N FATs)	✖
SRA21Φ	Central 2019 Release	0	0.0	10.1	I-R	I-R	R		-0.6	OK	17	9.0	Low TCH & low CCS (N FATs)	✖
SRA22Φ	Central 2019 Release	1	0.5	10.7	I-R	R	I-R		-1.4	OK	13	8.7	↓10 to 20 TCH & average CCS (N FATs); low fibre cane but FQM OK	✖
SRA23Φ	Burdekin 2019 Release	-3	0.0	9.8	R	I	R		0.2	OK	17	7.8	-10 TCH & -1.5 CCS (N FATs); Heavy ARR	✖
WSRA24Φ	Herbert 2019 Release	6	-1.1	9.6	R	R	R		-1.1	OK	20*	n/a	Failed germ in CSLHWT over 2 years	✓
SRA32	Burdekin 2021 Release	16	-0.8	10.2	I-R	R	R		1.0	OK	19	10.9	High TCH, low CCS, high % fibre & TFH in P Crop (N FATs)	n/a

*New N FAT Series with no performance data ye

SRA14Φ (QN86-2139 x Q200Φ):

Overall Performance: (relative to Q208Φ)

- TCH: Equal (or below) Q208Φ
- CCS: Equal to Q208Φ
- TSH: Equal (or below) Q208Φ
- rEGV: 9.7

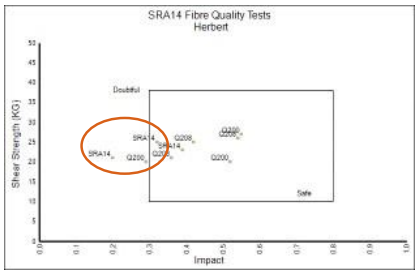
Disease:

- Smut: Intermediate-Resistant
- Pachymetra: Resistant
- Leaf Scald: Resistant

Quality:

- Floc: Lower than Q208Φ
- Fibre Quality: No apparent issues (?) but low fibre & lower impact resistance

- Observed TCH decline in ratoons in 2011 N FATs



Clone	Location	Year	Impact	Shear Strength	% Short Fibre
Q200Φ*	2R FAT	2017	0.52	20	64
Q208Φ*	2R FAT	2017	0.42	25	58
SRA14Φ	**2R FAT**	**2017**	**0.39**	**23**	**52**
Q200Φ*	1R FAT	2017	0.29	20	56
Q208Φ*	1R FAT	2017	0.36	21	52
SRA14Φ	**1R FAT**	**2017**	**0.20**	**21**	**62**
Q200Φ*	P FAT	2017	0.55	27	62
Q208Φ*	P FAT	2017	0.54	26	58
SRA14Φ	**P FAT**	**2017**	**0.32**	**25**	**58**

Decision: To RELEASE or DISCARD (unanimous vote needed)

			(# votes)		(# votes)		(# votes)	*Action:*
Varieties:	**SRA5Φ**	☑ RELEASE	(10)	☐ HOLD	(0)	☐ DISCARD	(0)	RELEASE
	SRA14Φ	☑ RELEASE	(10)	☐ HOLD	(0)	☐ DISCARD	(0)	RELEASE

Actions:

- **RELEASE** – Northern RVC approves the RELEASE of SRA5Φ and SRA14Φ but only recommended for the Tully region only, and only grown under advisement from the Tully Variety Management Group as there are other more productive and profitable varieties available.
- SRA5Φ and SRA14Φ will not be made available to growers via PSOs in other Far Northern regions – growers will have to access clean seed material via Tissue Culture if they want either of the varieties.

7	**Review of Northern Recommended Variety List (Felicity Atkin)**

- Northern Recommended Variety List was reviewed – the following changes were made:
  - SRA5$^{\phi}$, SRA9$^{\phi}$, SRA14$^{\phi}$, SRA32 and SRA37 (QS09-7559) were all added to the Planting and Ratooning list following the 2022 Approval to RELEASE votes by the Northern RVC.
  - Q151 and Q201$^{\phi}$ were removed from the Ratooning Only list after 0 tonnes were delivered in 2020 and 2021.
  - Q96, Q135, Q217, Q226$^{\phi}$ and SRA1$^{\phi}$ all removed from Planting list and are recommended for ratooning only.
  - Leaf Scald susceptible varieties on the Ratooning Only list were also reviewed and found to still be delivered to Northern mills in 2021, but tonnes delivered have declined since 2019.

2022 Northern RVC Recommended Varieties List – planting and ratooning

Variety	Planting	Ratoon-ing	Crushed in 2021?	Tonnes Crushed 2021	Comments
SRA37	Y	Y	-	-	**Approved by Northern RVC (2022)**
SRA32	Y	Y	Y	629	**Approved by Northern RVC (2022)**
SRA28$^{\phi}$	Y	Y	Y	183	Approved by Northern RVC (2020)
SRA27	Y	Y	Y	4,326	Approved by Northern RVC (2019) (Tableland Only)
SRA26$^{\phi}$	Y	Y	Y	13,096	Approved by Northern RVC (2019)
SRA25$^{\phi}$	Y	Y	Y	1,205	Approved by Northern RVC (2019)
SRA16$^{\phi}$	Y	Y	Y	12,570	Approved by Northern RVC (2018)
SRA15$^{\phi}$	Y	Y	Y	64,921	Approved by Northern RVC (2018)
SRA14$^{\phi}$	Y	Y	Y	80	**Approved by Northern RVC (2022)**
SRA10$^{\phi}$	Y	Y	Y	32,476	Approved by Northern RVC (2017)
SRA9$^{\phi}$	Y	Y	-	-	**Approved by Northern RVC (2022)**
SRA8	N	N	Y	48	Not Approved by Northern RVC
SRA7$^{\phi}$	Y	Y	Y	61,772	Approved by Northern RVC (2016)
SRA6$^{\phi}$	Y	Y	Y	56,011	Approved by Northern RVC (2016)
SRA5$^{\phi}$	Y	Y	Y	1,931	**Approved by Northern RVC (2022)**
SRA3$^{\phi}$	Y	Y	Y	61,217	Approved by Northern RVC (2016) (Blanket Approval)
SRA1$^{\phi}$	N	Y	Y	1,575	Approved by Northern RVC (2016) (Blanket Approval); **(RATOON ONLY - 2022 decision)**
Q256$^{\phi}$	Y	Y	Y	6,706	Approved by Northern RVC (2013)
Q253$^{\phi}$	Y	Y	Y	812,539	Approved by Northern RVC (2015) (Blanket Approval)
Q252$^{\phi}$	Y	Y	Y	135,234	Approved by Northern RVC (2015) (Blanket Approval)
Q251$^{\phi}$	Y	Y	Y	83,731	Approved by Northern RVC (2012)
Q250$^{\phi}$	Y	Y	Y	366,547	Approved by Northern RVC (2012)
Q249$^{\phi}$	Y	Y	Y	1,442	Approved by Northern RVC (2015) (Blanket Approval)
Q247$^{\phi}$	Y	Y	Y	64,168	Approved by Northern RVC (2015) (Blanket Approval)

Q246[Φ]	N	Y	Y	111	(RATOON ONLY - 2019 decision)
Q245[Φ]	Y	Y	Y	1,963	Approved by Northern RVC (2015) (Blanket Approval)
Q242[Φ]	Y	Y	Y	33,232	Approved by Northern RVC (2015) (Blanket Approval)
Q241[Φ]	Y	Y	Y	30,052	
Q240[Φ]	Y	Y	Y	438,699	Approved by Northern RVC (2013) (Blanket Approval)
MQ239[Φ]	Y	Y	Y	11,722	Approved by Northern RVC (2015)
Q238[Φ]	Y	Y	Y	31,156	Approved by Northern RVC (2012)
Q237[Φ]	Y	Y	Y	23,917	
Q232[Φ]	Y	Y	Y	22,707	
Q231[Φ]	Y	Y	Y	117,823	
Q230[Φ]	Y	Y	Y	2,763	
Q229[Φ]	N	Y	Y	5,500	Tonnes declining from 2018 (RATOON ONLY as Leaf Scald Susceptible - 2018 decision)
KQ228[Φ]	Y	Y	Y	478,750	
Q226[Φ]	N	Y	Y	528	Approved by Northern RVC (2013); **(RATOON ONLY - 2022 decision)**
Q220	N	Y	Y	270	Tonnes declining from 2018 (RATOON ONLY - 2019 decision)
Q219	Y	Y	Y	26,206	
Q218	N	Y	Y	59	400 tonnes crushed in 2018 (RATOON ONLY - 2019 decision)
Q217	N	Y	Y	918	**(RATOON ONLY - 2022 decision)**
Q215	N	Y	Y	344	(RATOON ONLY - 2019 decision)
Q208[Φ]	Y	Y	Y	1,933,416	
Q204	N	Y	N	0	(RATOON ONLY - 2019 decision)
Q201	N	N	N	0	**(REMOVAL - 2022 decision)**
Q200[Φ]	Y	Y	Y	814,268	
Q199	N	Y	Y	2,168	Slight increase in tonnes from 2019 (RATOON ONLY as Leaf Scald Susceptible - 2018 decision)
Q198	N	Y	Y	643	(RATOON ONLY - 2019 decision)
Q191	Y	Y	Y	1,045	Tonnes declining from 2019
Q190	Y	Y	Y	16,249	
Q187	Y	Y	Y	3,983	
Q186	Y	Y	Y	81,155	
Q183	Y	Y	Y	152,315	
Q177	N	Y	Y	68	Tonnes declining from 2018 (RATOON ONLY - 2019 decision)
Q174	Y	Y	Y	3,071	
Q172	Y	Y	Y	991	Tonnes declining from 2018
Q166	N	Y	Y	132	Tonnes declining from 2018 (RATOON ONLY - 2019 decision)
Q160	N	Y	N	0	Tonnes declining from 2018 (RATOON ONLY - 2019 decision)
Q152	N	Y	Y	976	(RATOON ONLY - 2019 decision)
Q151	N	N	N	0	**(REMOVAL - 2022 decision)**
Q138	Y	Y	Y	6,502	
Q135	N	Y	Y	339	Tonnes declining from 2018 **(RATOON ONLY - 2022 decision)**
Q120	N	Y	Y	43	(RATOON ONLY - 2019 decision)

	Q117	N	Y	N	0	(RATOON ONLY - 2018 decision)
	Q114	N	Y	Y	173	Tonnes declining from 2018 (RATOON ONLY - 2019 decision)
	Q113	N	Y	Y	91	Tonnes declining from 2018 (RATOON ONLY - 2019 decision)
	Q96	N	Y	Y	356	Tonnes declining from 2019 **(RATOON ONLY - 2022 decision)**
8	**Thank you and close of meeting for 2022**					
	Meeting closed 12:20pm					