

2021 VARIETY TRIAL RESULTS

Four variety trials were harvested in the 2021 season. These were plant cane at Inkerman, second ratoon at Mulgrave, third ratoon at Millaroo and fourth ratoon at the Upper Haughton.

BPS would like to thank all of the participating growers and their harvesting crews for their assistance with the variety trial program.

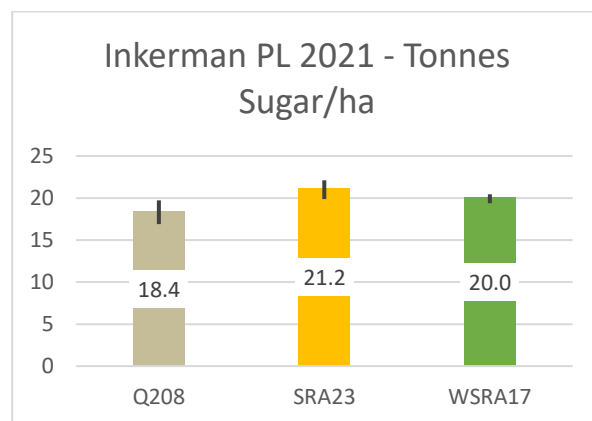
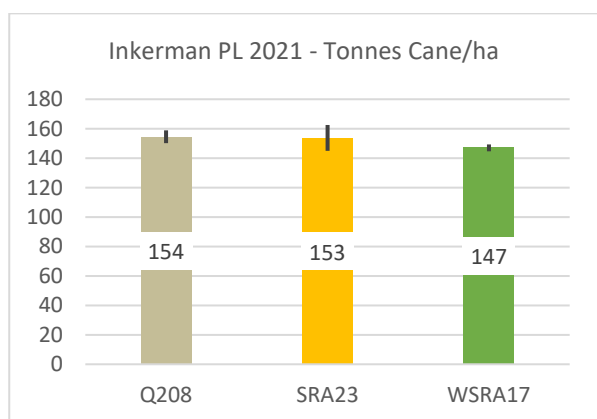
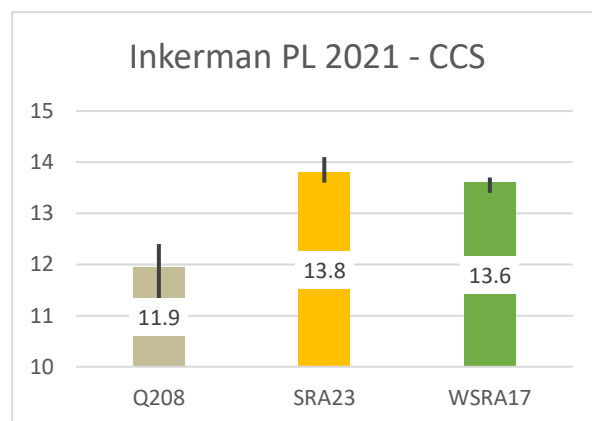
The trial results for each site include the harvest results from this year as well as the cumulative results over the life of the trial. The black lines on the graphs for the 2021 results show the range of results, that is the lowest and highest yield for each plot.

For the 2021 returns a sugar price of \$450/t has been used; for the cumulative results a sugar price of \$400/t was used. Harvesting and levies have been set at \$8.50/t.

Inkerman – Plant Cane

- Q208 and SRA23 outperformed the WSRA17 for tonnes of cane per hectare
- CCS was very similar for SRA23 and WSRA17, and well ahead of the Q208
- SRA23 was the highest tonnes of sugar, followed by WSRA17; Q208 was well behind due to the low CCS
- \$/ha return reflected the tonnes of sugar – SRA23, then WSRA17 and Q208 last

Variety	TCH	CCS	TSH	\$ Return*
Q208	154	11.9	18.4	3750
SRA23	153	13.8	21.2	4886
WSRA17	147	13.6	20.0	4574

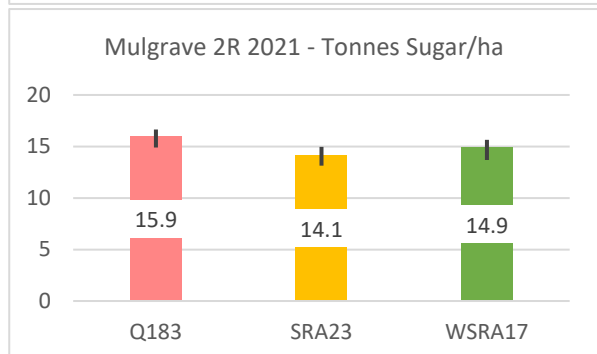
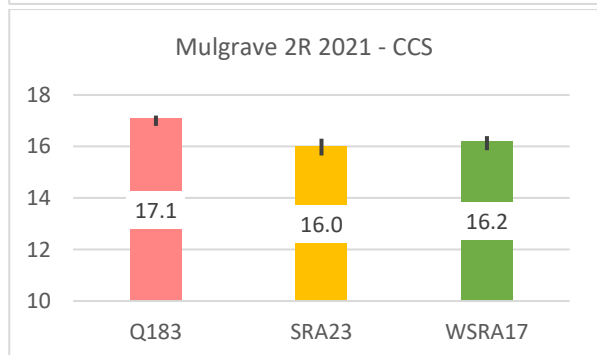
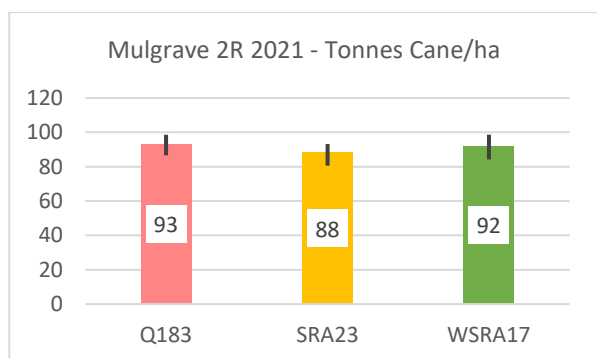


Mulgrave – 2nd Ratoon

2021 Results

- Q183 and WSRA17 both had higher tonnes cane/ha than SRA23
- Q183 was a unit of CCS higher than the others
- Q183 had the best tonnes of sugar/ha with 1 t/ha more than WSRA17 and nearly 2 t/ha better than SRA23; this is also reflected in the \$/ha return

Variety	TCH	CCS	TSH	\$ Return*
Q183	93	17.1	15.9	4213
SRA23	88	16.0	14.1	3594
WSRA17	92	16.2	14.9	3817



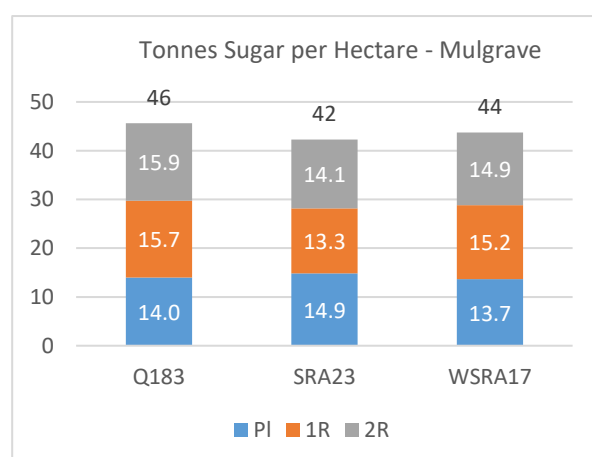
Cumulative Results

- Cane yield was slightly higher this year than last year. Over the trial so far, WSRA17 has the highest total tonnes of cane (269), which is slightly better than Q183 (266).
- Q183 has consistently had the best CCS averaging about a unit better than WSRA17 and SRA23.

Tonnes Cane/ha				
Variety	PI	1R	2R	Total
Q183	84	88	93	266
SRA23	92	82	88	262
WSRA17	88	89	92	269

CCS				
Variety	PI	1R	2R	Average
Q183	16.6	17.8	17.1	17.2
SRA23	16.1	16.2	16.0	16.1
WSRA17	15.6	17.0	16.2	16.3

Tonnes Sugar/ha				
Variety	PI	1R	2R	Total
Q183	14.0	15.7	15.9	46
SRA23	14.9	13.3	14.1	42
WSRA17	13.7	15.2	14.9	44

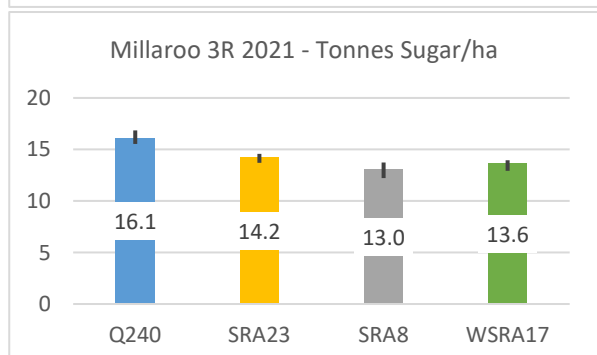
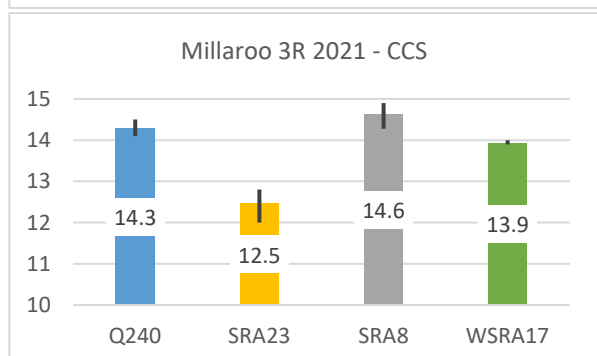
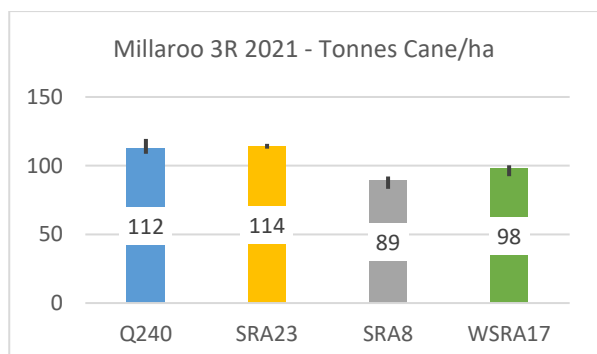


Millaroo – 3rd Ratoon

2021 Results

- Q240 and SRA23 had the best tonnes cane/ha; SRA8 had the lowest and was more than 20 t/ha behind the best two varieties
- Conversely, SRA8 had the best CCS, closely followed by Q240. SRA23 was the lowest being nearly 2 units behind the best performers.
- Overall Q240 had the best \$/ha return; SRA23 had the lowest return, despite having the highest cane yield, because of the low CCS

Variety	TCH	CCS	TSH	\$ Return*
Q240	112	14.3	16.1	3808
SRA23	114	12.5	14.2	3017
SRA8	89	14.6	13.0	3136
WSRA17	98	13.9	13.6	3162



Cumulative Results

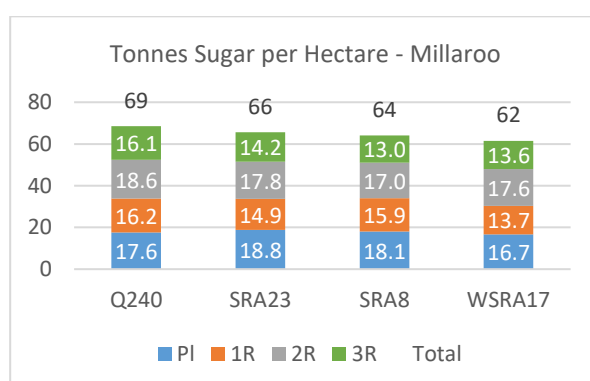
- Over the four years of the trial Q240 has the highest tonnes of cane and WSRA17 has the lowest.
- Average CCS is very similar across all varieties.
- Tonnes sugar/ha and \$/ha return have followed the tch trend.

Tonnes Cane/ha					
Variety	PI	1R	2R	3R	Total
Q240	108	110	123	112	454
SRA23	113	100	122	114	449
SRA8	110	111	115	89	425
WSRA17	101	94	116	98	409

CCS					
Variety	PI	1R	2R	3R	Average
Q240	16.3	14.7	15.2	14.3	15.1
SRA23	16.7	14.9	14.6	12.5	14.7
SRA8	16.4	14.3	14.9	14.6	15.0
WSRA17	16.5	14.6	15.1	13.9	15.0

Tonnes Sugar/ha					
Variety	PI	1R	2R	3R	Total
Q240	17.6	16.2	18.6	16.1	68.5
SRA23	18.8	14.9	17.8	14.2	65.7
SRA8	18.1	15.9	17.0	13.0	64.1
WSRA17	16.7	13.7	17.6	13.6	61.5

Cumulative Return \$/ha			
Variety	TCH	CCS	\$ Return*
Q240	454	15.1	14604
SRA23	449	14.7	13691
SRA8	425	15.0	13582
WSRA17	409	15.0	13024

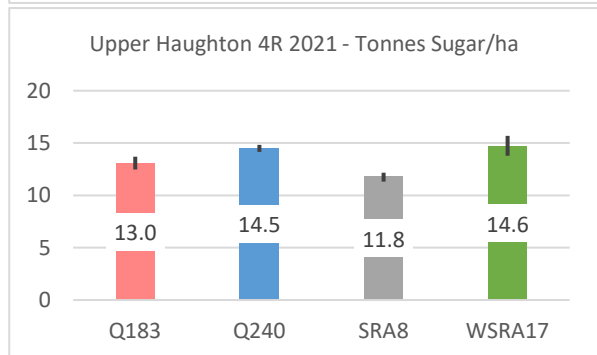
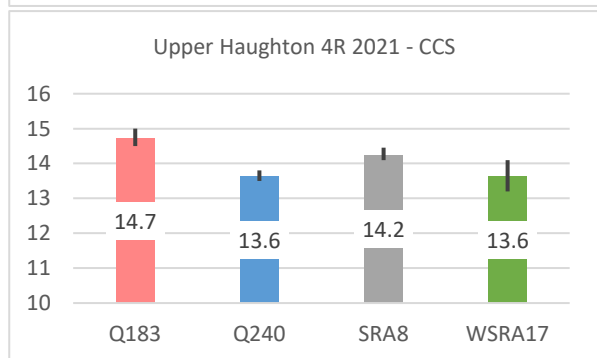
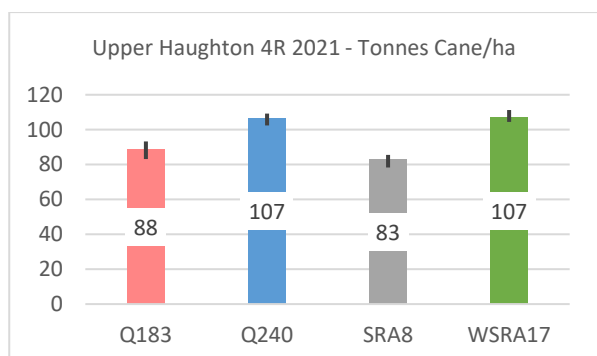


Upper Haughton – 4th Ratoon

2021 Results

- Q240 and WSRA17 had the best cane yield and identical and lowest CCS. SRA8 had both the lowest yield and lowest CCS.
- Q183 had the best CCS but was behind by 19 t/ha on cane yield.
- \$/ha return was best for Q240 and WSRA17, followed by Q183 with SRA8 being the worst.

Variety	TCH	CCS	TSH	\$ Return*
Q183	88	14.7	13.0	3149
Q240	107	13.6	14.5	3323
SRA8	83	14.2	11.8	2786
WSRA17	107	13.6	14.6	3348



Cumulative Results

- Over the five years of the trial WSRA17 has the highest cane yield (650 t/ha), followed by Q240 (613), SRA8 (536) and then Q183 (532).
- Average CCS for all varieties was between 13.9 (WSRA17) and 14.5 (Q183).
- Despite having a slightly lower average CCS, WSRA17 had the best overall return; Q240 was the next best variety.

Tonnes Cane/ha						
Variety	PI	1R	2R	3R	4R	Total
Q183	151	105	93	95	88	532
Q240	176	111	109	111	107	613
SRA8	150	109	100	93	83	536
WSRA17	197	127	106	114	107	650

CCS						
Variety	PI	1R	2R	3R	4R	Ave.
Q183	12.6	14.7	14.7	15.7	14.7	14.5
Q240	12.9	14.6	14.4	15.9	13.6	14.3
SRA8	13.0	13.9	13.7	15.2	14.2	14.0
WSRA17	12.5	14.1	13.8	15.4	13.6	13.9

Tonnes Sugar/ha						
Variety	PI	1R	2R	3R	4R	Total
Q183	19.0	15.4	13.6	15.0	13.0	76
Q240	22.6	16.1	15.6	17.6	14.5	87
SRA8	19.6	15.3	13.7	14.2	11.8	75
WSRA17	24.5	17.8	14.6	17.5	14.6	89

Cumulative Return \$/ha			
Variety	TCH	CCS	\$ Return*
Q183	532	14.5	15943
Q240	613	14.3	17863
SRA8	536	14.0	15150
WSRA17	650	13.9	18010

