

## 2020 VARIETY TRIAL RESULTS

This year BPS harvested six variety trials, ranging from first to third ratoon. This was the final year for two of the third ratoon sites; all other sites have been ratooned and will be harvested again next year.

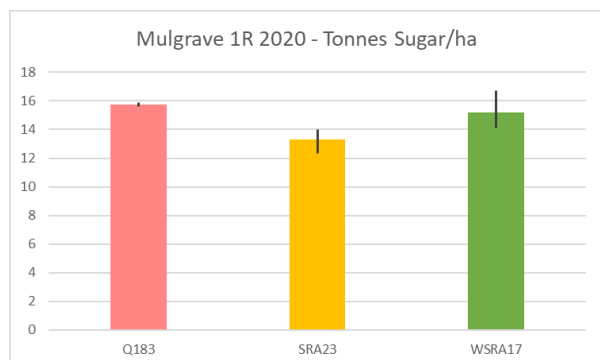
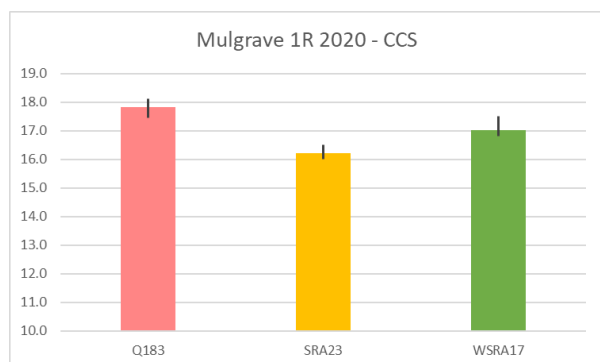
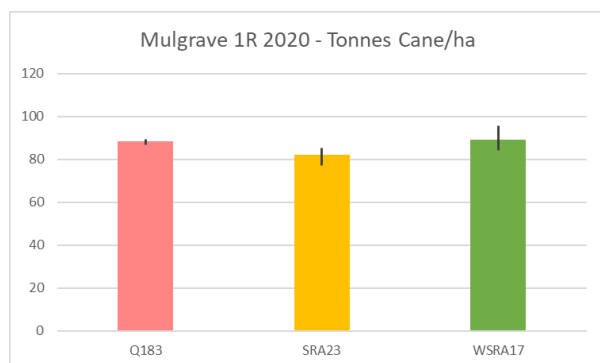
BPS would like to thank all of the participating growers and their harvesting crews for their assistance with the variety trial program.

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 2020 results show the range of results, that is the lowest and highest yield for each plot.

### Mulgrave – 1<sup>st</sup> ratoon

#### 2020 Results

- WSRA17 and Q183 both outperformed SRA23 for tonnes of cane/ha
- Q183 produced the highest CCS at 17.2
- Q183 had the best tonnes sugar/ha at 15.7



#### Cumulative Results

- Both Q183 and WSRA17 produced a higher amount of cane/ha, CCS and tonnes of sugar/ha compared to last year
- Tonnes of cane/ha for SRA23 dropped quite a lot compared to last year, the CCS did not change, tonnes of sugar/ha went down too

Tonnes Cane/hectare			
Variety	PI	1R	Total
Q183	84	88	172
SRA23	92	82	174
WSRA17	88	89	177

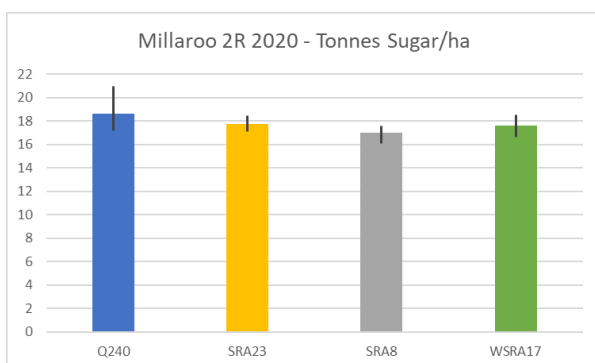
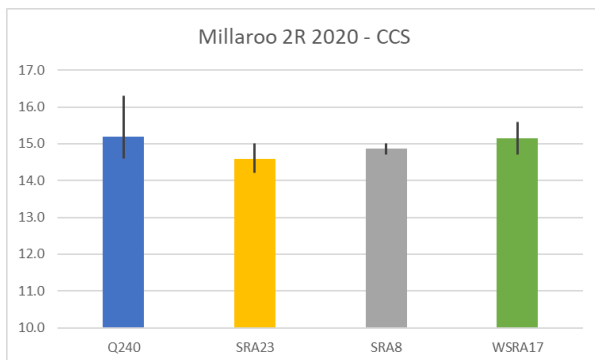
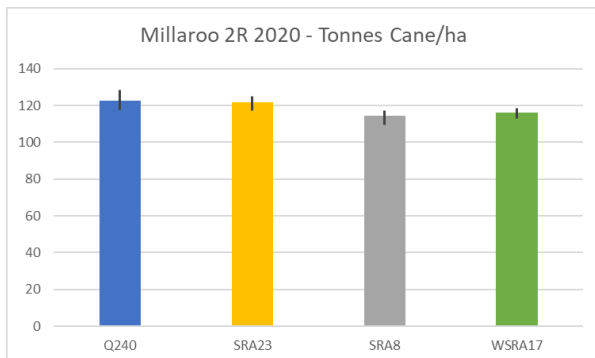
CCS			
Variety	PI	1R	Average
Q183	16.6	17.8	17.2
SRA23	16.1	16.2	16.2
WSRA17	15.6	17.0	16.3

Tonnes Sugar/hectare			
Variety	PI	1R	Total
Q183	14.0	15.7	30
SRA23	14.9	13.3	28
WSRA17	13.7	15.2	29

## Millaroo – 2<sup>nd</sup> ratoon

### 2020 Results

- Q240 and SRA23 had the highest tonnes cane/ha at 122 and 123t/ha
- Q240 and WSRA17 had the highest CCS at 15.2 and 15.1
- Q240 had the highest tonnes sugar/ha at 18.6; while SRA8 had the lowest at 17



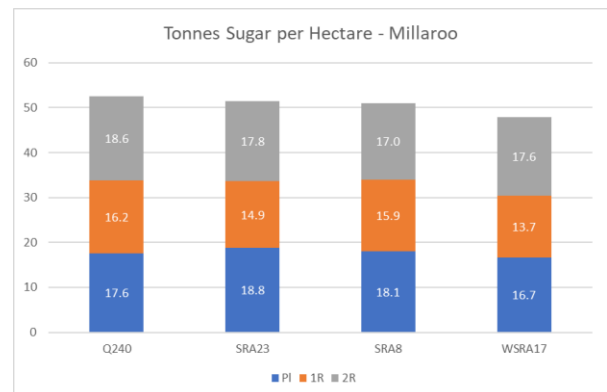
### Cumulative Results

- Over the 3 years at Millaroo, Q240 had the highest total tonnes of cane/ha and tonnes sugar/ha
- Annual CCS was similar for all varieties

Tonnes Cane/hectare				
Variety	PI	1R	2R	Total
Q240	108	110	123	341
SRA23	113	100	122	334
SRA8	110	111	115	336
WSRA17	101	94	116	311

CCS				
Variety	PI	1R	2R	Average
Q240	16.3	14.7	15.2	15.4
SRA23	16.7	14.9	14.6	15.4
SRA8	16.4	14.3	14.9	15.2
WSRA17	16.5	14.6	15.1	15.4

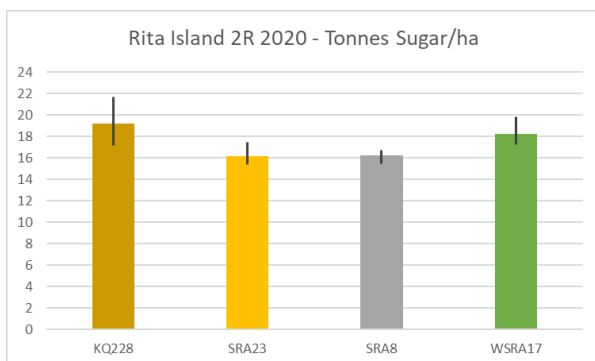
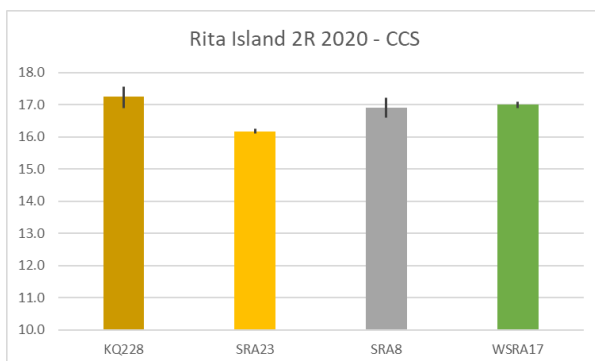
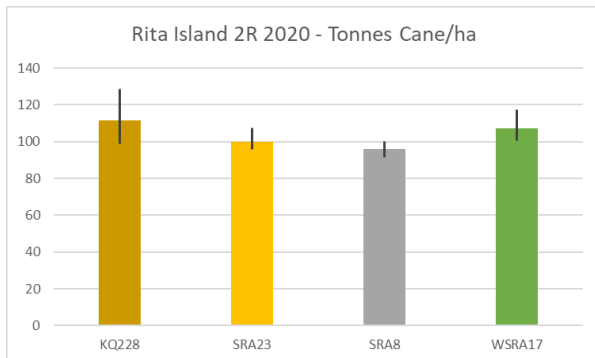
Tonnes Sugar/hectare				
Variety	PI	1R	2R	Total
Q240	17.6	16.2	18.6	52
SRA23	18.8	14.9	17.8	51
SRA8	18.1	15.9	17.0	51
WSRA17	16.7	13.7	17.6	48



## Rita Island – 2<sup>nd</sup> ratoon

### 2020 Results

- KQ228 was the best performing variety with the highest tonnes cane (111), CCS (17.2) and tonnes of sugar/ha (19.2)
- WSR17 was the next best variety; with the second highest tch, CCS and tsh



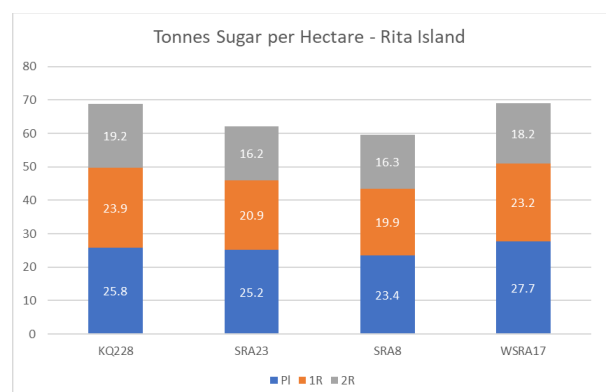
### Cumulative Results

- Overall WSR17 produced the highest tonnes of cane and sugar throughout the 3 years of trial, followed by KQ228

Tonnes Cane/hectare				
Variety	PI	1R	2R	Total
KQ228	163	141	111	416
SRA23	167	129	100	397
SRA8	172	127	96	395
WSRA17	186	141	107	434

CCS				
Variety	PI	1R	2R	Average
KQ228	15.8	16.9	17.2	16.7
SRA23	15.0	16.1	16.2	15.8
SRA8	13.6	15.7	16.9	15.4
WSRA17	14.9	16.5	17.0	16.1

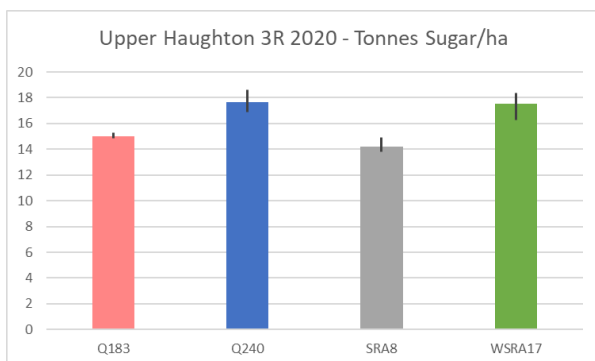
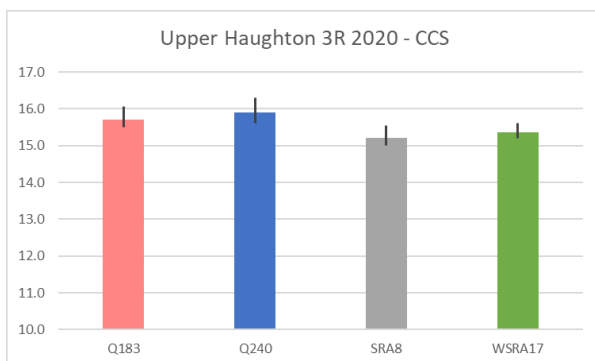
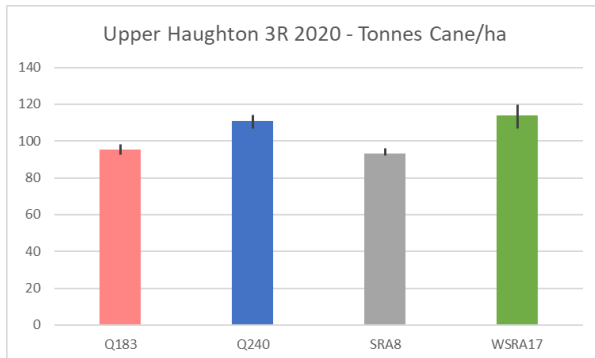
Tonnes Sugar/hectare				
Variety	PI	1R	2R	Total
KQ228	25.8	23.9	19.2	69
SRA23	25.2	20.9	16.2	62
SRA8	23.4	19.9	16.3	60
WSRA17	27.7	23.2	18.2	69



## Upper Houghton – 3rd ratoon

### 2020 Results

- WSRA17 produced the highest tonnes cane/ha at 114 followed by Q240 at 111
- Q240 and Q183 produced the highest CCS at 15.9 and 15.7
- Q240 and WSRA17 had the best tonnes of sugar per hectare with 17.6 and 17.5



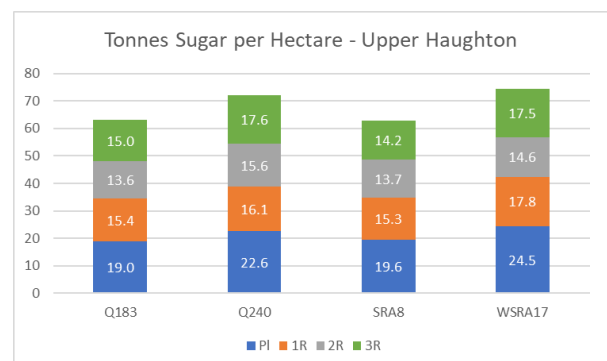
### Cumulative Results

- Q240 and WSRA17 produced the best throughout the 4 years of trial
- Q183 and SRA8 consistently underperformed
- Q183 and Q240 produced higher amounts of CCS during their first and second ratoons in comparison to the other two varieties

Tonnes Cane/hectare					
Variety	PI	1R	2R	3R	Total
Q183	151	105	93	95	444
Q240	176	111	109	111	506
SRA8	150	109	100	93	454
WSRA17	197	127	106	114	543

CCS					
Variety	PI	1R	2R	3R	Average
Q183	12.6	14.7	14.7	15.7	14.4
Q240	12.9	14.6	14.4	15.9	14.4
SRA8	13.0	13.9	13.7	15.2	14.0
WSRA17	12.5	14.1	13.8	15.4	13.9

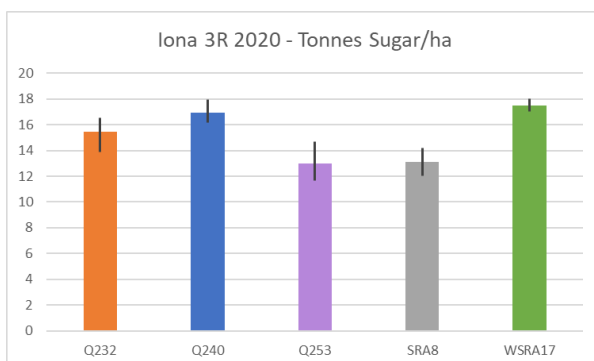
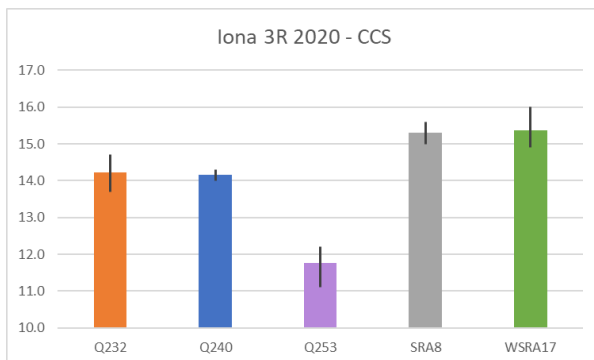
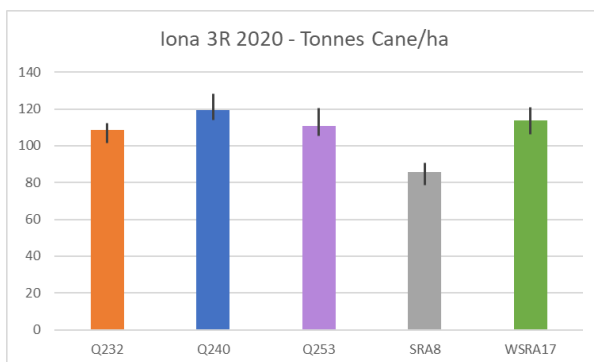
Tonnes Sugar/hectare					
Variety	PI	1R	2R	3R	Total
Q183	19.0	15.4	13.6	15.0	63
Q240	22.6	16.1	15.6	17.6	72
SRA8	19.6	15.3	13.7	14.2	63
WSRA17	24.5	17.8	14.6	17.5	74



## Iona – 3<sup>rd</sup> ratoon

### 2020 Results

- Q240 had the best tonnes of cane per hectare
- WSRA17 produced the best tonnes of sugar per hectare and the best CCS
- Q232 and SRA8 had the lowest tonnes cane/ha
- CCS for Q253 was exceptionally low



### Cumulative Results

- Q240 was the best performing in tonnes of cane, followed by Q253 and Q232
- SRA8 produced nearly 100 t/ha less tonnes of cane/ha than the other varieties
- Q240 has produced the highest tonnes of sugar/ha, followed closely by WSRA17 and Q232
- Q253 had the worst CCS throughout the duration of the trial

Tonnes Cane/hectare					
Variety	PI	1R	2R	3R	Total
Q232	191	144	126	109	570
Q240	182	151	131	120	583
Q253	182	158	128	111	578
SRA8	139	118	110	86	452
WSRA17	165	138	122	114	539

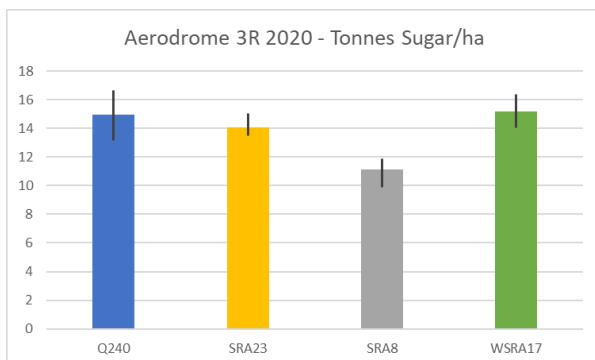
CCS					
Variety	PI	1R	2R	3R	Average
Q232	12.0	13.1	13.7	14.2	13.3
Q240	12.5	14.4	14.5	14.2	13.9
Q253	10.9	13.1	13.3	11.8	12.3
SRA8	13.0	14.7	15.0	15.3	14.5
WSRA17	12.5	14.9	15.4	15.4	14.5

Tonnes Sugar/hectare					
Variety	PI	1R	2R	3R	Total
Q232	22.9	18.9	17.3	15.4	75
Q240	22.8	21.6	19.0	16.9	80
Q253	19.9	20.7	17.0	13.0	71
SRA8	18.1	17.3	16.5	13.1	65
WSRA17	20.6	20.5	18.8	17.5	77

## Aerodrome – 3<sup>rd</sup> ratoon

### 2020 Results

- WSRA17 produced the highest tonnes of cane/ha at 118, SRA8 had the lowest at 74
- SRA8 had the highest CCS at 14.9
- WSRA17 and Q240 had the best tonnes of sugar/ha at 15.2, SRA8 had the lowest at 11.1



### Cumulative Results

- Over the life of the trial, WSRA 17 had the best tonnes of cane/ha
- Q240, SRA23 and WSRA17 all had very similar tonnes sugar/ha

Tonnes Cane/hectare					
Variety	PI	1R	2R	3R	Total
Q240	155	124	101	108	488
SRA23	170	124	99	110	503
SRA8	150	99	85	74	409
WSRA17	164	123	107	118	512

CCS					
Variety	PI	1R	2R	3R	Average
Q240	13.3	16.5	16.1	13.8	14.9
SRA23	14.9	15.9	15.0	12.8	14.7
SRA8	14.6	16.0	16.1	14.9	15.4
WSRA17	12.5	15.7	15.6	12.8	14.1

Tonnes Sugar/hectare					
Variety	PI	1R	2R	3R	Total
Q240	20.6	20.4	16.3	15.0	72
SRA23	25.5	19.8	14.8	14.1	74
SRA8	22.0	15.8	13.7	11.1	63
WSRA17	20.5	19.2	16.6	15.2	71

