



# Variety Trial Results 2017-2019

## VARIETY TRIAL RESULTS 2017-2019

The following graphs show the results from variety trials planted from 2016 (plant harvest 2017) to 2018 (plant harvest 2019).

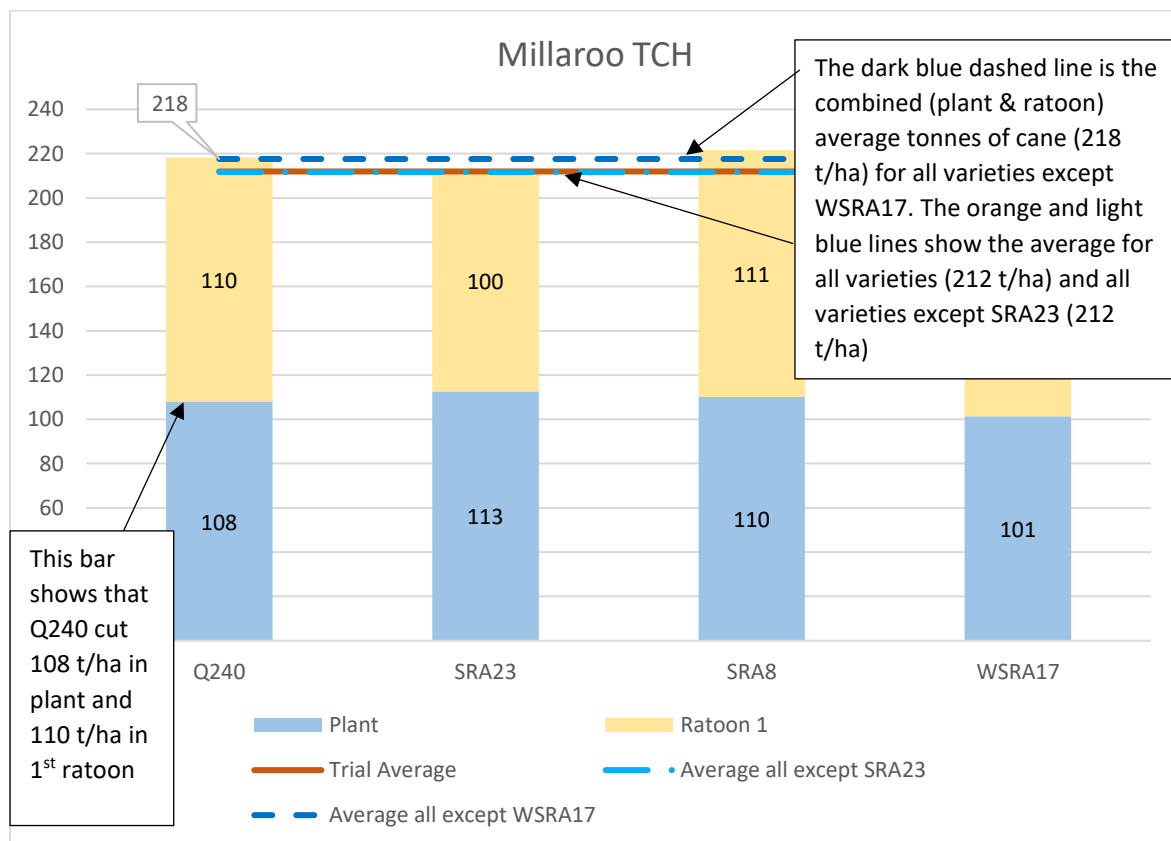
For each site there are three graphs showing:

- tonnes of cane per hectare;
- tonnes of sugar per hectare;
- CCS

### Tonnes of cane and tonnes of sugar graphs

The tonnes of cane and tonnes of sugar graphs show the tonnes per hectare that have been harvested for each variety by crop class as stacked bar graphs. The lines on each graph show the average total tonnes of cane for all varieties in the trial, and the average total tonnes of cane for all varieties in the trial excluding either WSRA17 or SRA23.

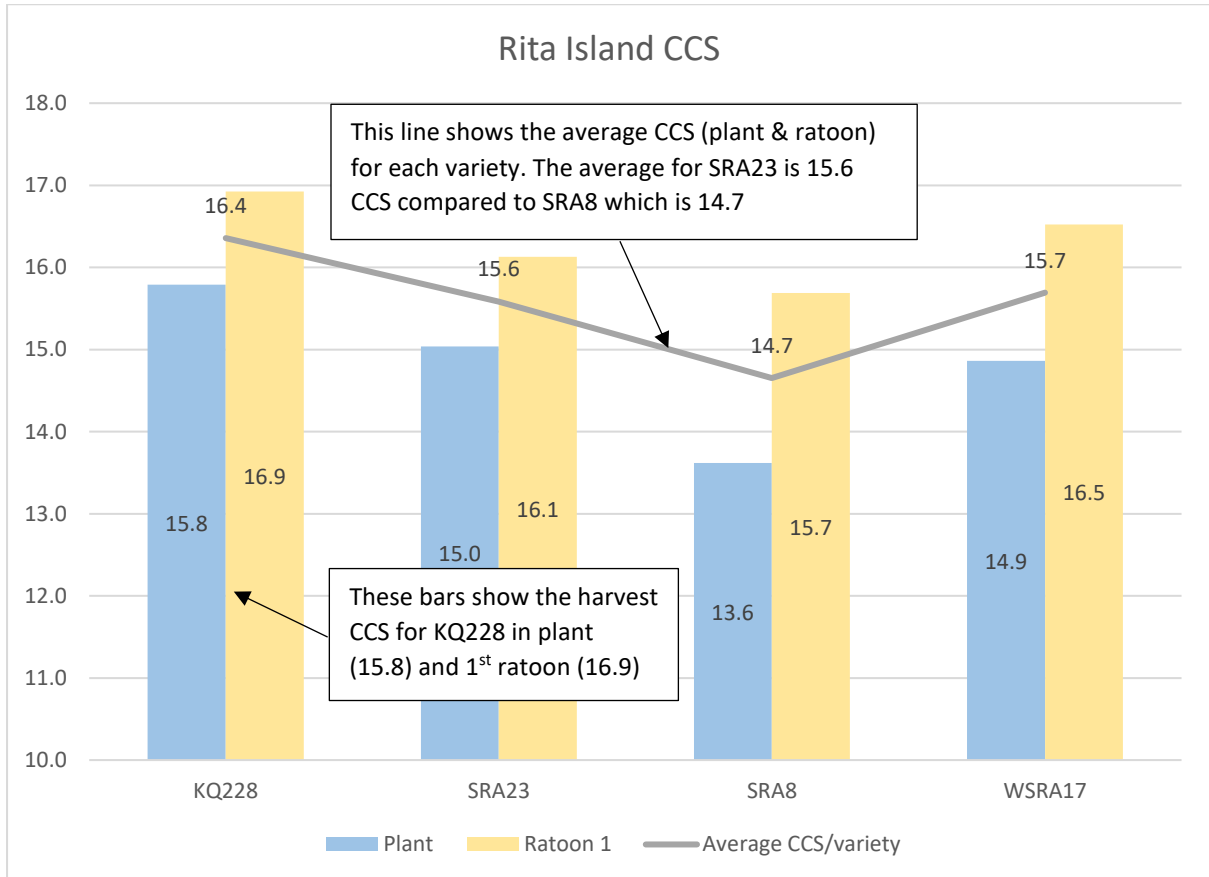
Example:



## CCS graphs

The CCS graphs show the variety CCS for each crop class as bar graphs. The line is the average for each variety over time.

Example:



**Site: Mulgrave**

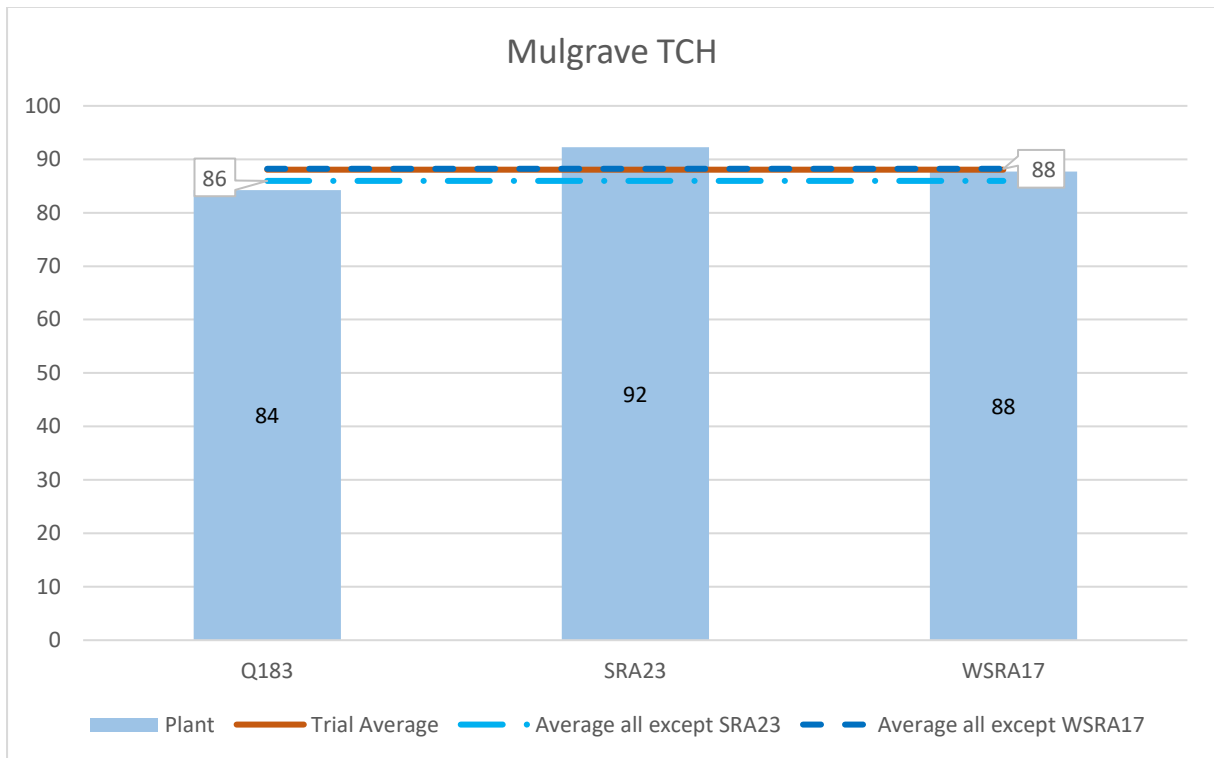
**Soil Type:** Sodic duplex at the top of the block and medium to heavy cracking clay at the bottom (sodic duplex – cracking clay)

**Planted:** August 2018

**Plant cane harvest:** October 2019

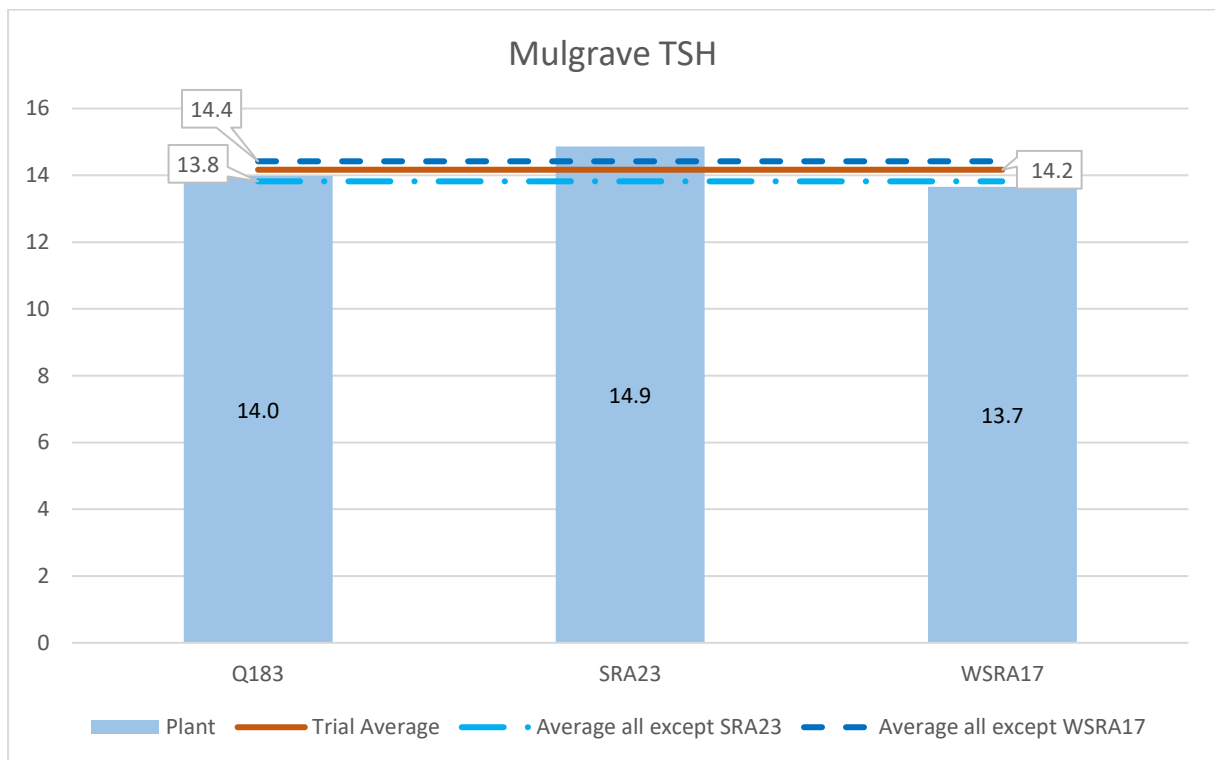
**Comments:** Yields are quite low at this site due to it being a plough-out replant block that was planted later in the year.

**Tonnes Cane per Hectare**



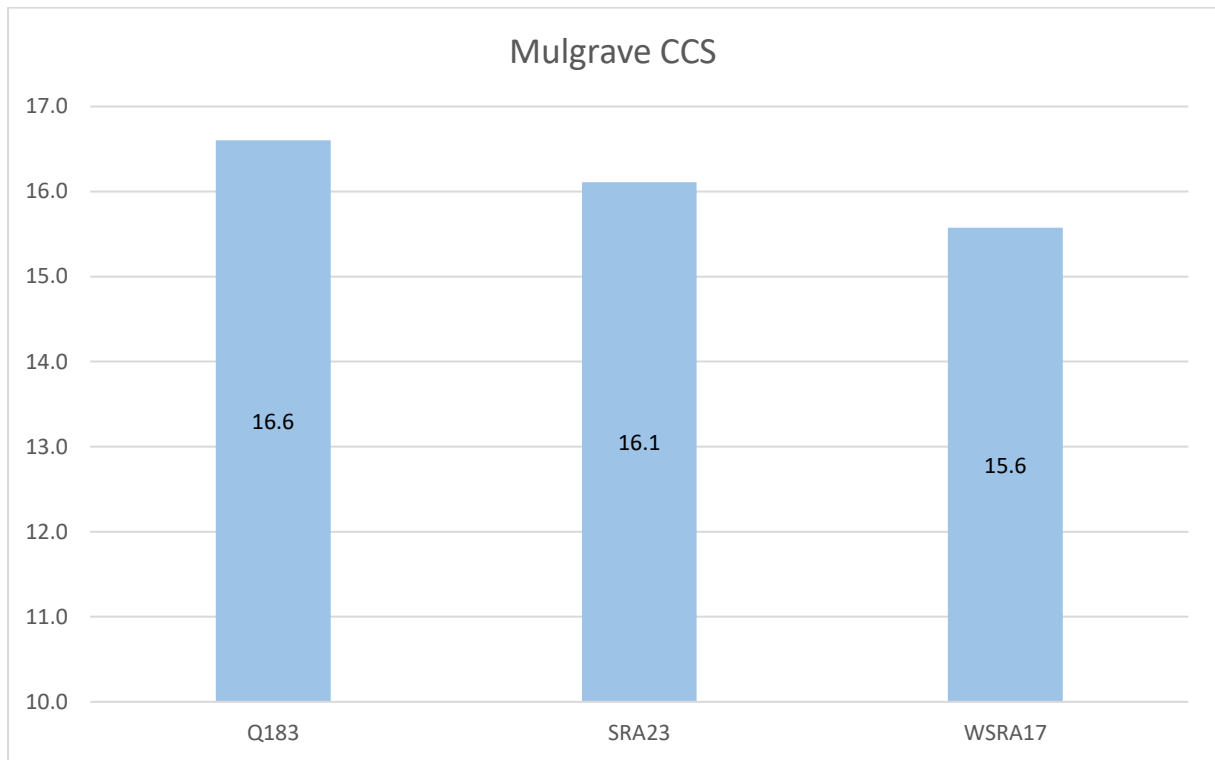
Variety	Plant	Trial Average	Average all except SRA23	Average all except WSRA17
Q183	84	86	88	88
SRA23	92	86	88	88
WSRA17	88	86	88	88

## Tonnes Sugar per Hectare



Variety	Plant	Trial Average	Average all except SRA23	Average all except WSRA17
Q183	14.0	14.2	13.8	14.4
SRA23	14.9	14.2	13.8	14.4
WSRA17	13.7	14.2	13.8	14.4

## CCS



Variety	Plant	Average CCS/variety
Q183	16.6	16.6
SRA23	16.1	16.1
WSRA17	15.6	15.6

**Site: Millaroo**

**Soil Type:** Light sandy to bulldusty soil over clay (non-sodic duplex)

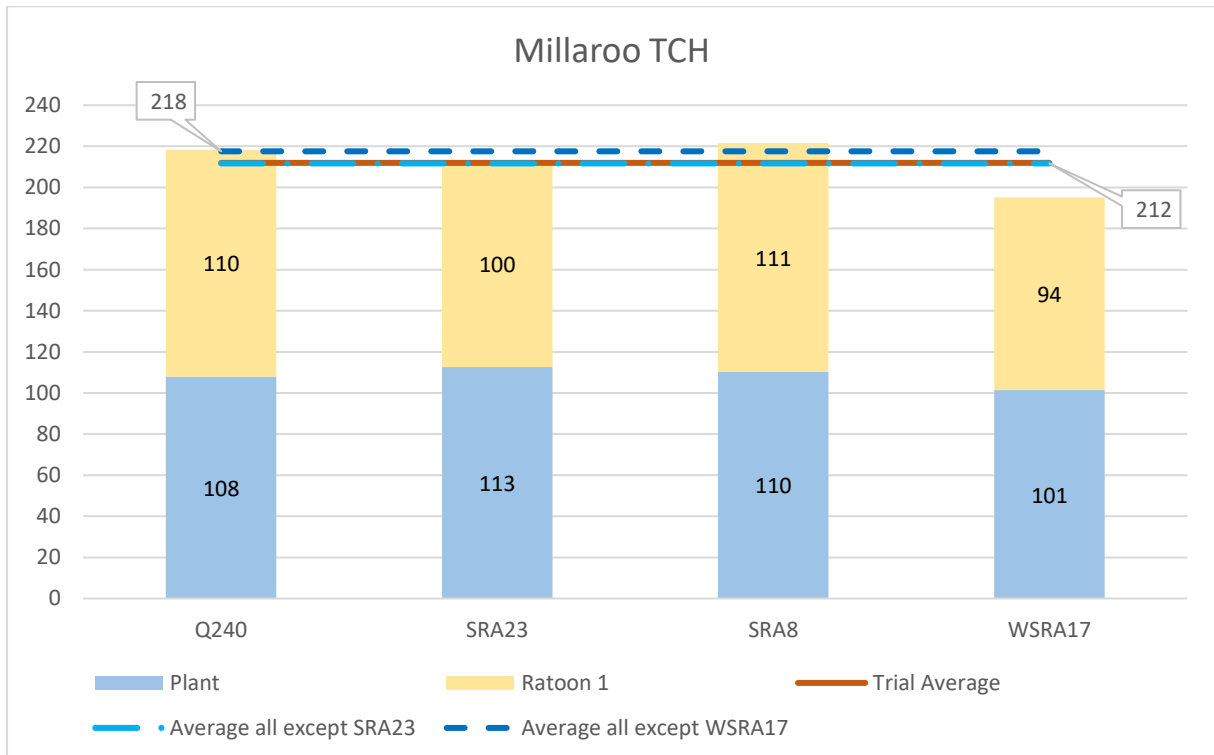
**Planted:** August 2017

**Plant cane harvest:** October 2018

**First ratoon harvest:** August 2019

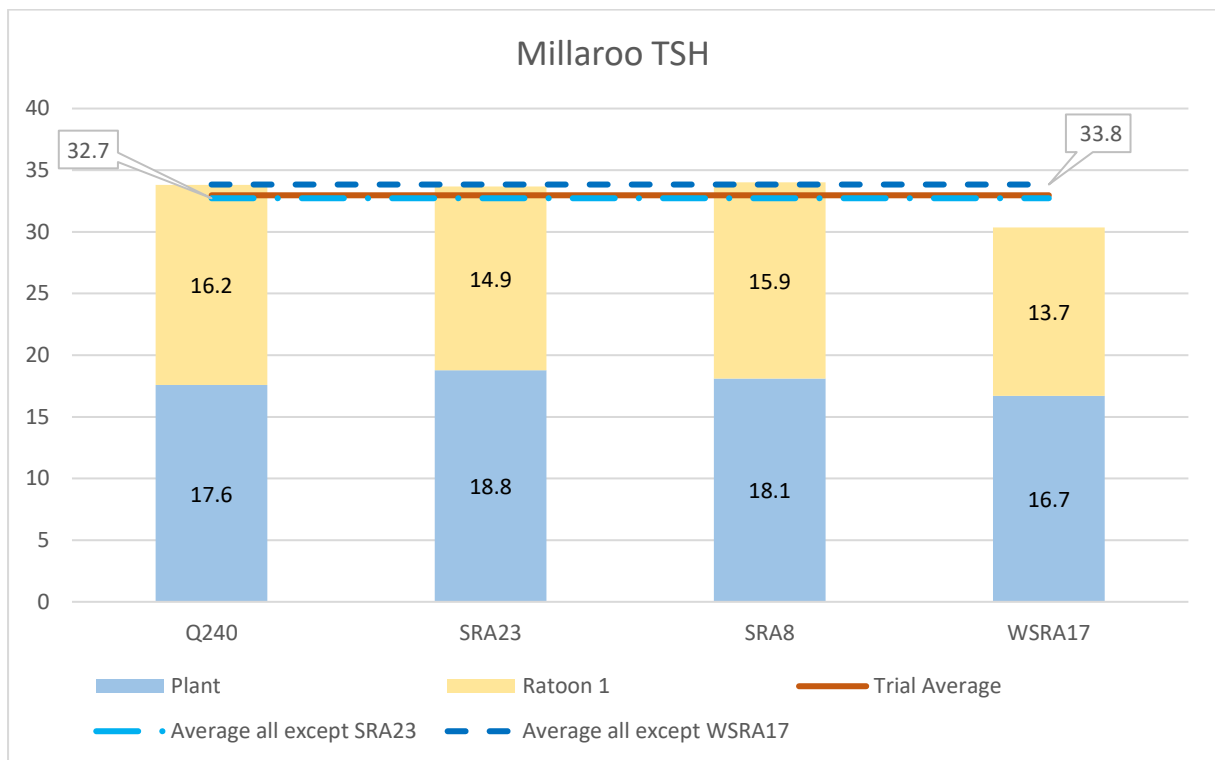
**Comments:** Block was plough-out replant and planted late, resulting in low plant cane yields.

**Tonnes Cane per Hectare**



Variety	Plant	Ratoon 1	Trial Average	Average all except SRA23	Average all except WSRA17
Q240	108	110	212	212	218
SRA23	113	100	212	212	218
SRA8	110	111	212	212	218
WSRA17	101	94	212	212	218

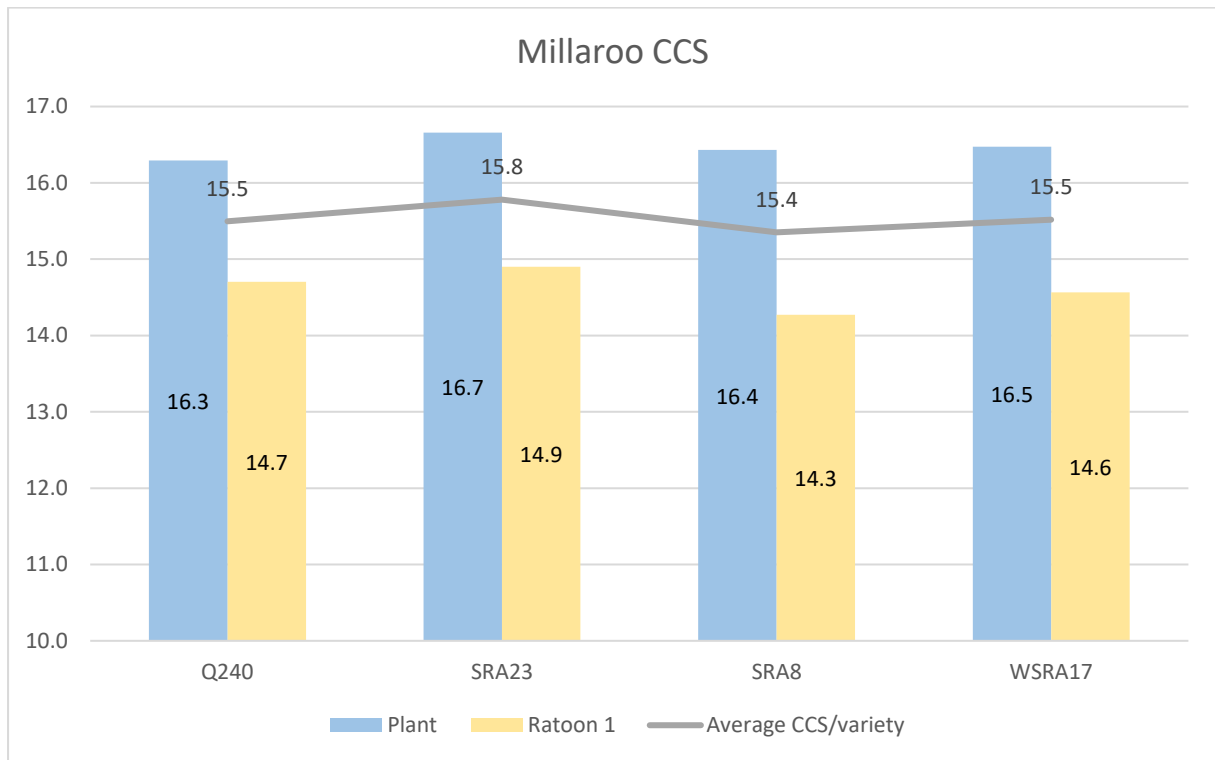
## Tonnes Sugar per Hectare



Variety	Plant	Ratoon 1	Trial Average	Average all except SRA23	Average all except WSRA17
Q240	17.6	16.2	33.0	32.7	33.8
SRA23	18.8	14.9	33.0	32.7	33.8
SRA8	18.1	15.9	33.0	32.7	33.8
WSRA17	16.7	13.7	33.0	32.7	33.8



## CCS



Variety	Plant	Ratoon 1	Average CCS/variety
Q240	16.3	14.7	15.5
SRA23	16.7	14.9	15.8
SRA8	16.4	14.3	15.4
WSRA17	16.5	14.6	15.5

**Site:** Rita Island

**Soil Type:** Delta clay , clay loam (non-cracking clay or clay loam)

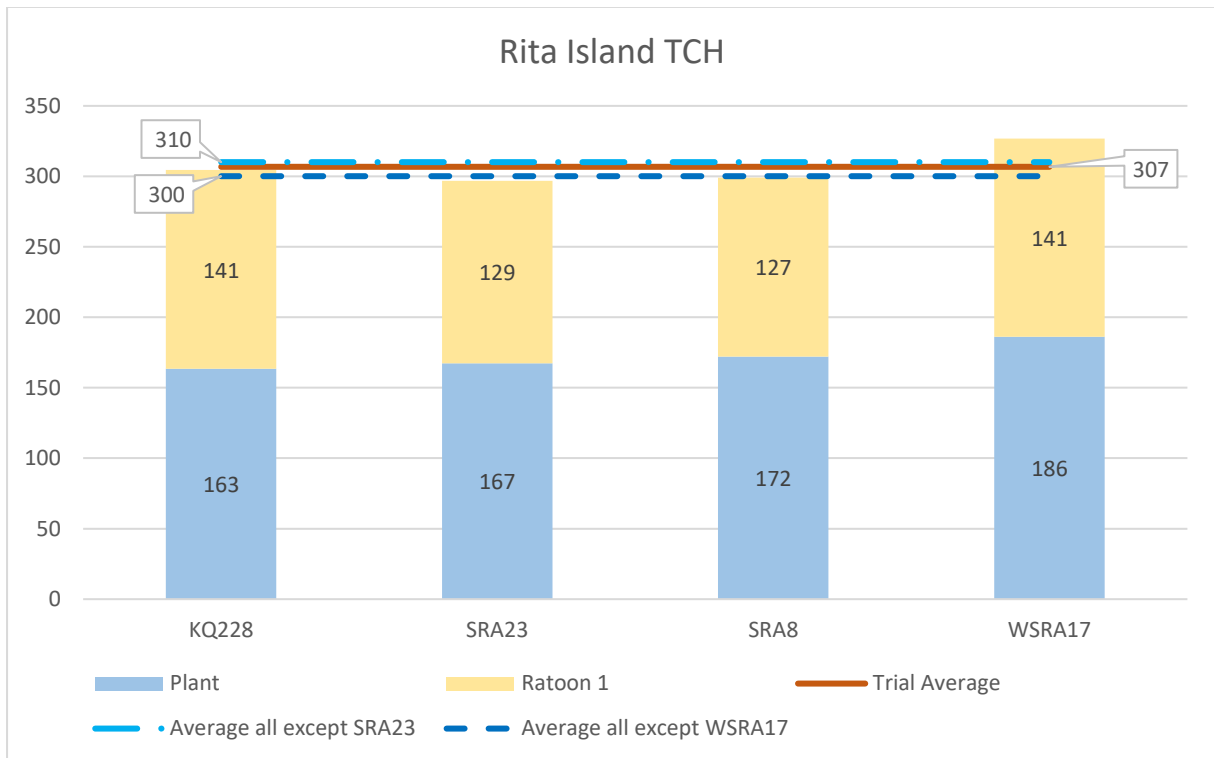
**Planted:** April 2017

**Plant cane harvest:** July 2018

**First ratoon harvest:** August 2019

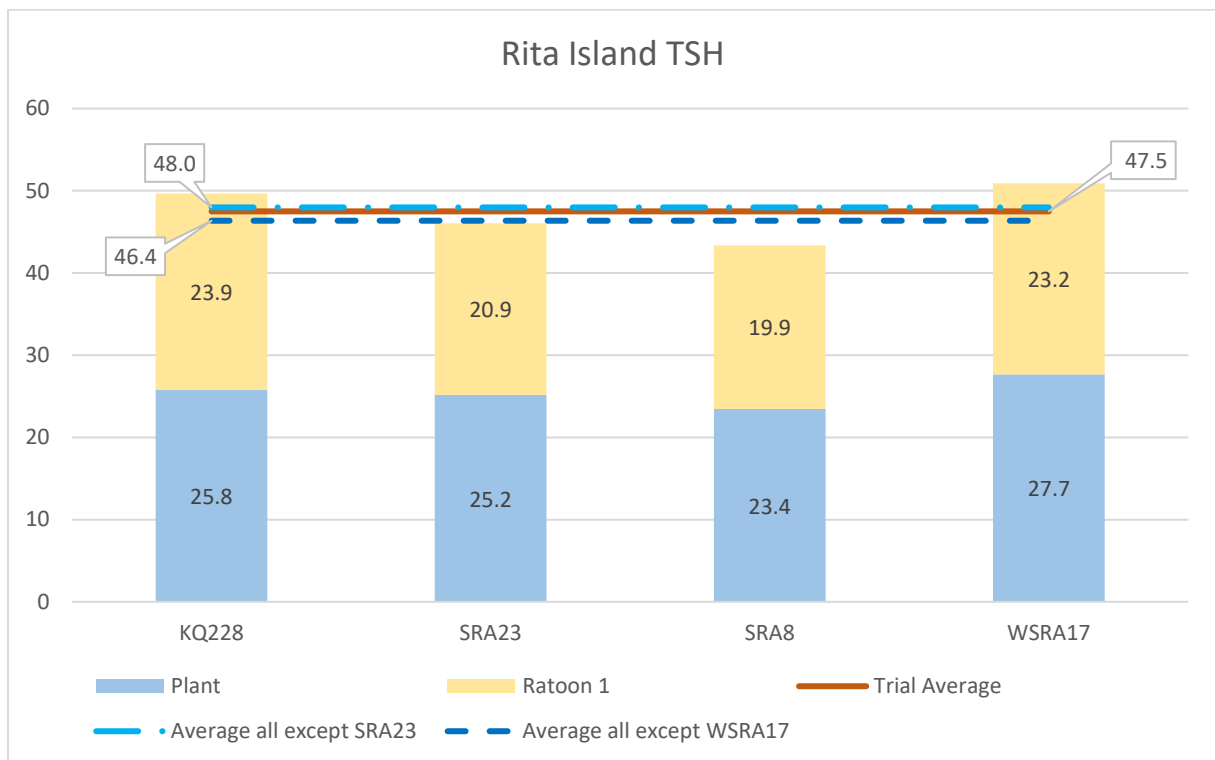
**Comments:** Moddus applied to plant and first ratoon – CCS levels are possibly higher than what might be expected given the location and cane yield

**Tonnes Cane per Hectare**



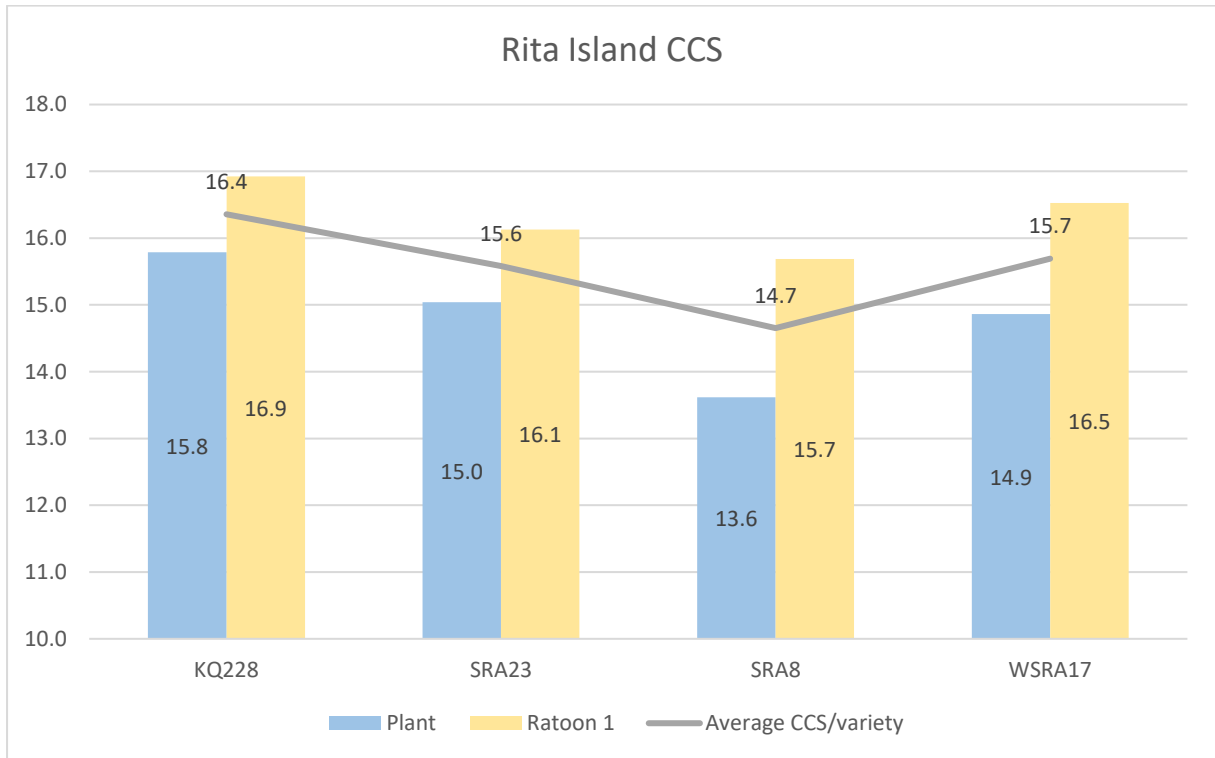
Variety	Plant	Ratoon 1	Trial Average	Average all except SRA23	Average all except WSRA17
KQ228	163	141	307	310	300
SRA23	167	129	307	310	300
SRA8	172	127	307	310	300
WSRA17	186	141	307	310	300

## Tonnes Sugar per Hectare



Variety	Plant	Ratoon 1	Trial Average	Average all except SRA23	Average all except WSRA17
KQ228	25.8	23.9	47.5	48.0	46.4
SRA23	25.2	20.9	47.5	48.0	46.4
SRA8	23.4	19.9	47.5	48.0	46.4
WSRA17	27.7	23.2	47.5	48.0	46.4

**CCS**



Variety	Plant	Ratoon 1	Average CCS/variety
KQ228	15.8	16.9	16.4
SRA23	15.0	16.1	15.6
SRA8	13.6	15.7	14.7
WSRA17	14.9	16.5	15.7

**Site:** Upper Haughton

**Soil Type:** Clay loam over light to medium clay (non-sodic duplex)

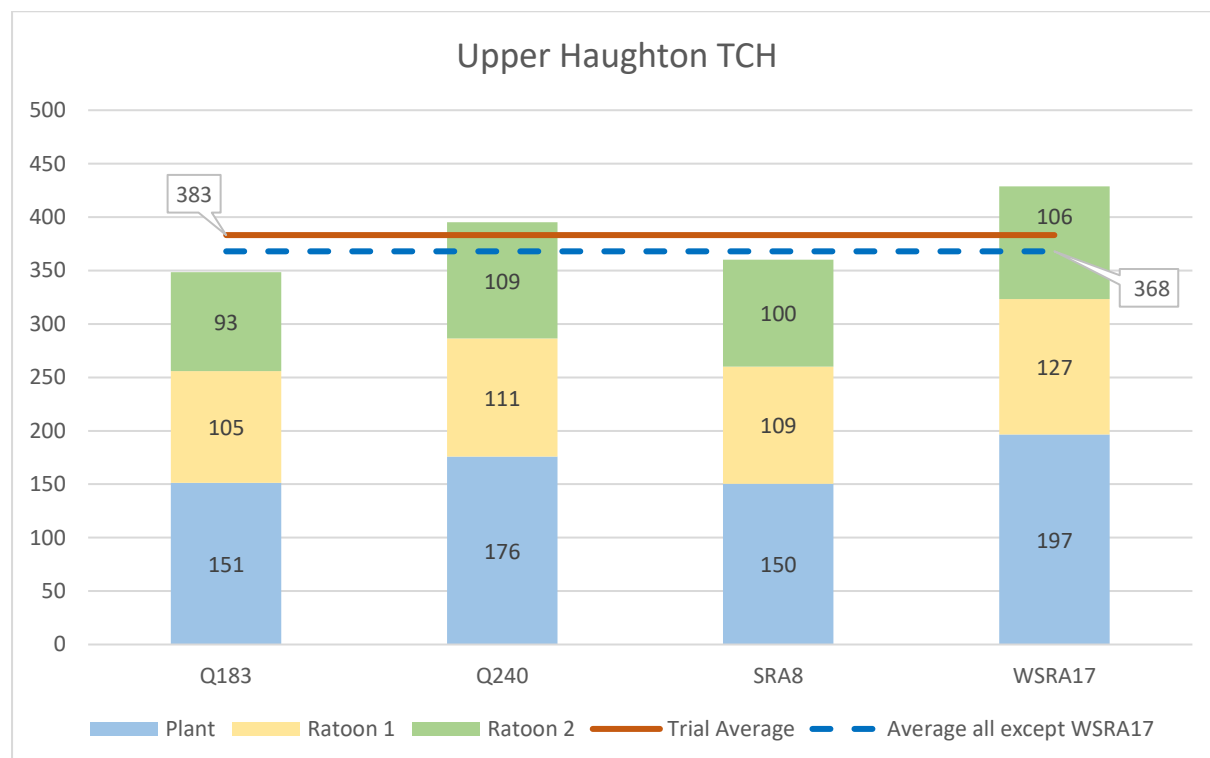
**Planted:** March 2016

**Plant cane harvest:** July 2017

**First ratoon harvest:** July 2018

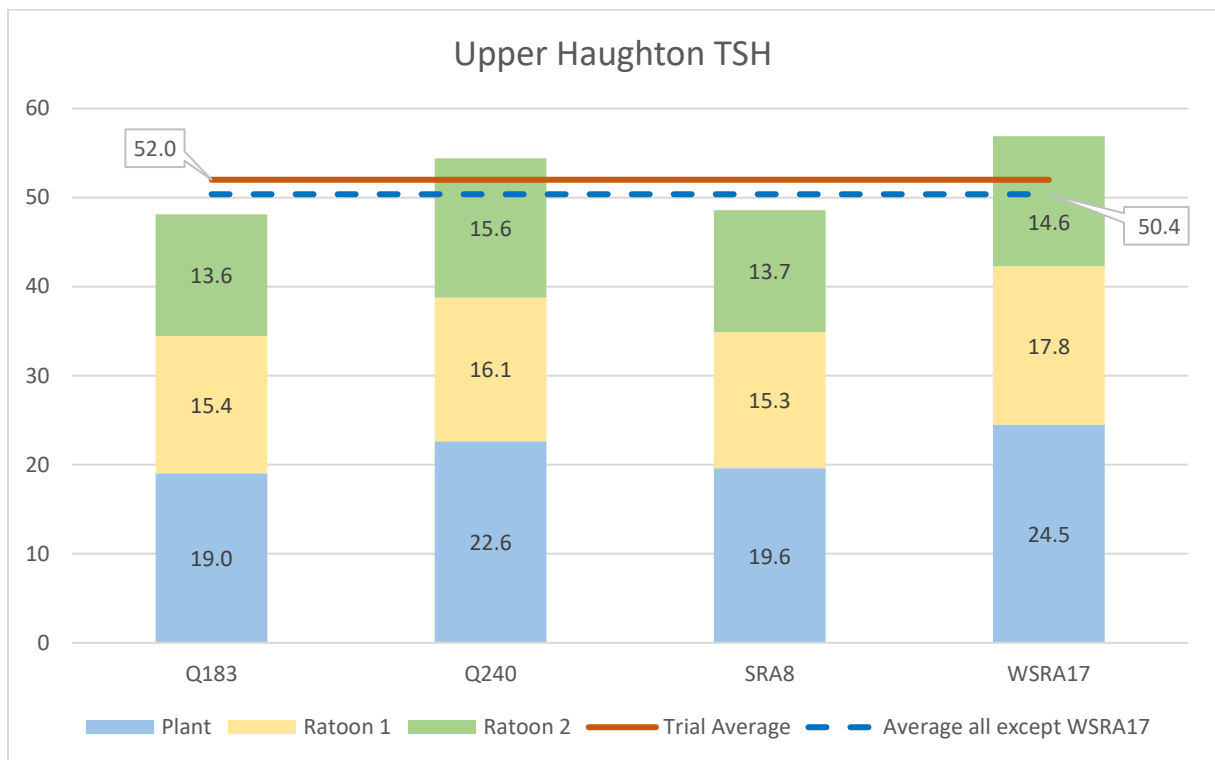
**Second ratoon harvest:** August 2019

**Tonnes Cane per Hectare**



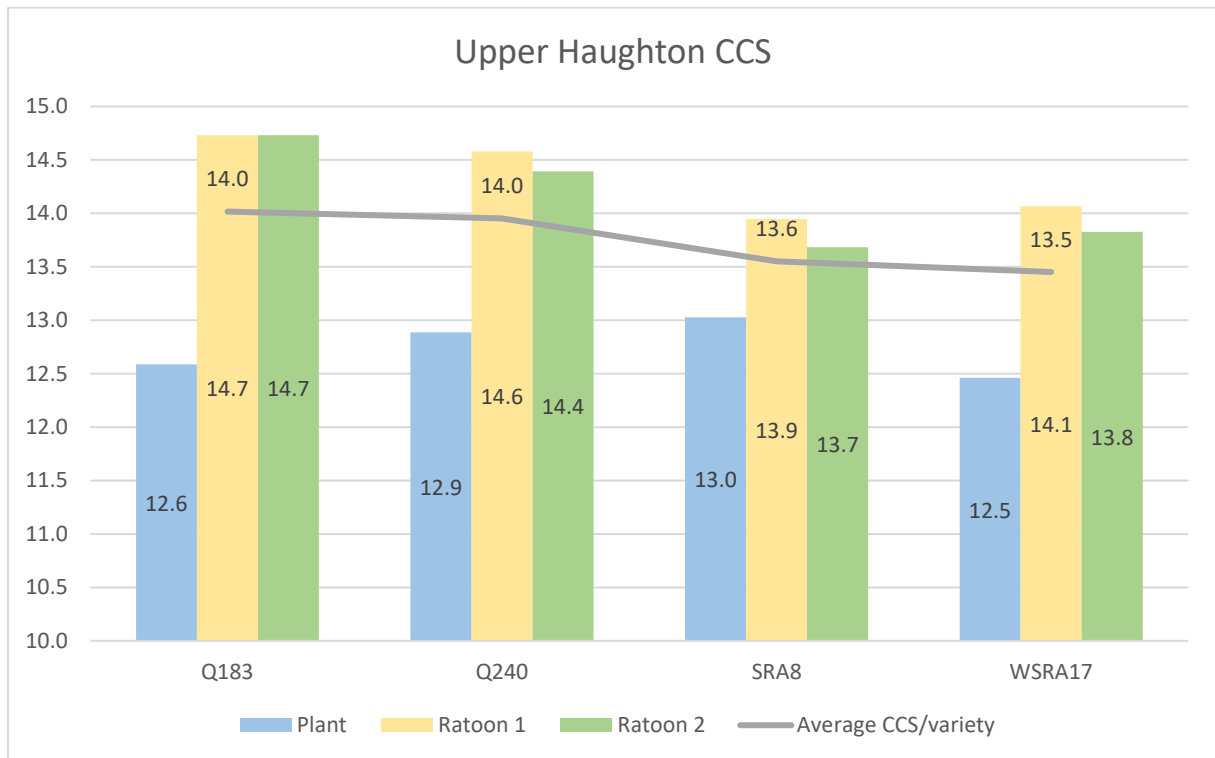
Variety	Plant	Ratoon 1	Ratoon 2	Trial Average	Average all except WSRA17
Q183	151	105	93	383	368
Q240	176	111	109	383	368
SRA8	150	109	100	383	368
WSRA17	197	127	106	383	368

## Tonnes Sugar per Hectare



Variety	Plant	Ratoon 1	Ratoon 2	Trial Average	Average all except WSRA17
Q183	19.0	15.4	13.6	52.0	50.4
Q240	22.6	16.1	15.6	52.0	50.4
SRA8	19.6	15.3	13.7	52.0	50.4
WSRA17	24.5	17.8	14.6	52.0	50.4

## CCS



Variety	Plant	Ratoon 1	Ratoon 2	Average CCS/variety
Q183	12.6	14.7	14.7	14.0
Q240	12.9	14.6	14.4	14.0
SRA8	13.0	13.9	13.7	13.6
WSRA17	12.5	14.1	13.8	13.5

**Site: Aerodrome**

**Soil Type:** Light to medium cracking clay (cracking clays)

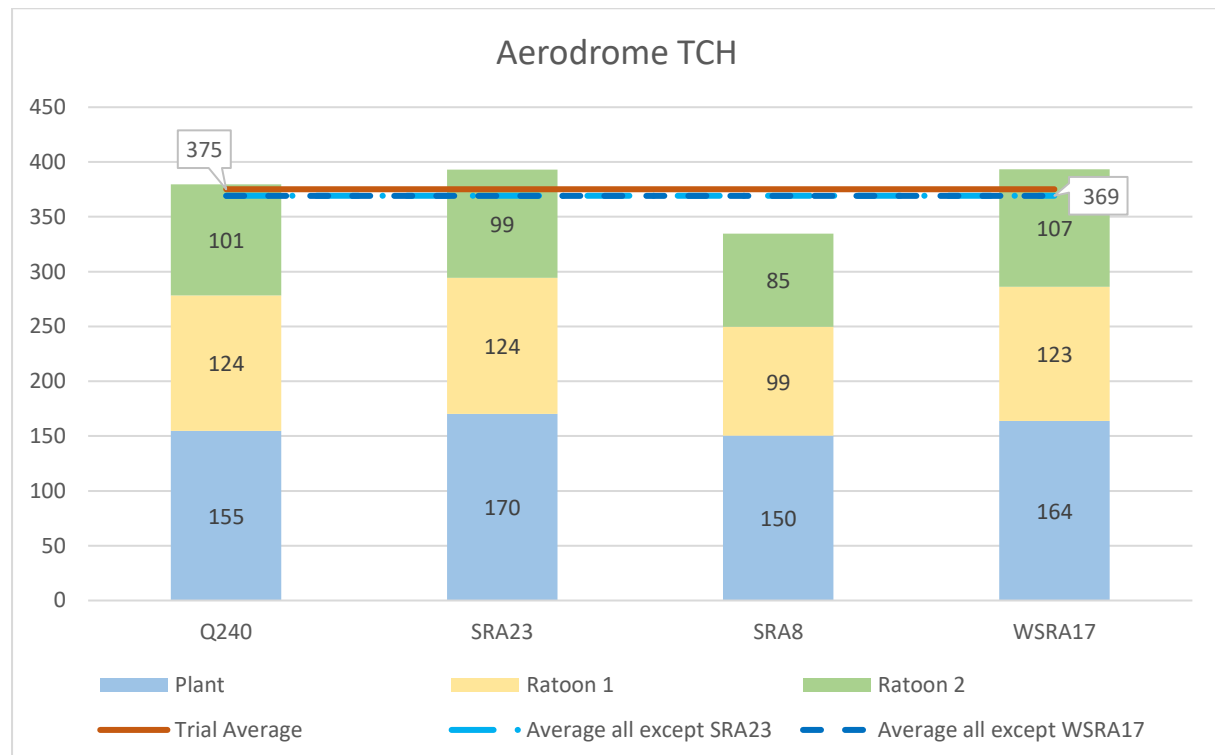
**Planted:** May 2016

**Plant cane harvest:** August 2017

**First ratoon harvest:** September 2018

**Second ratoon harvest:** September 2019

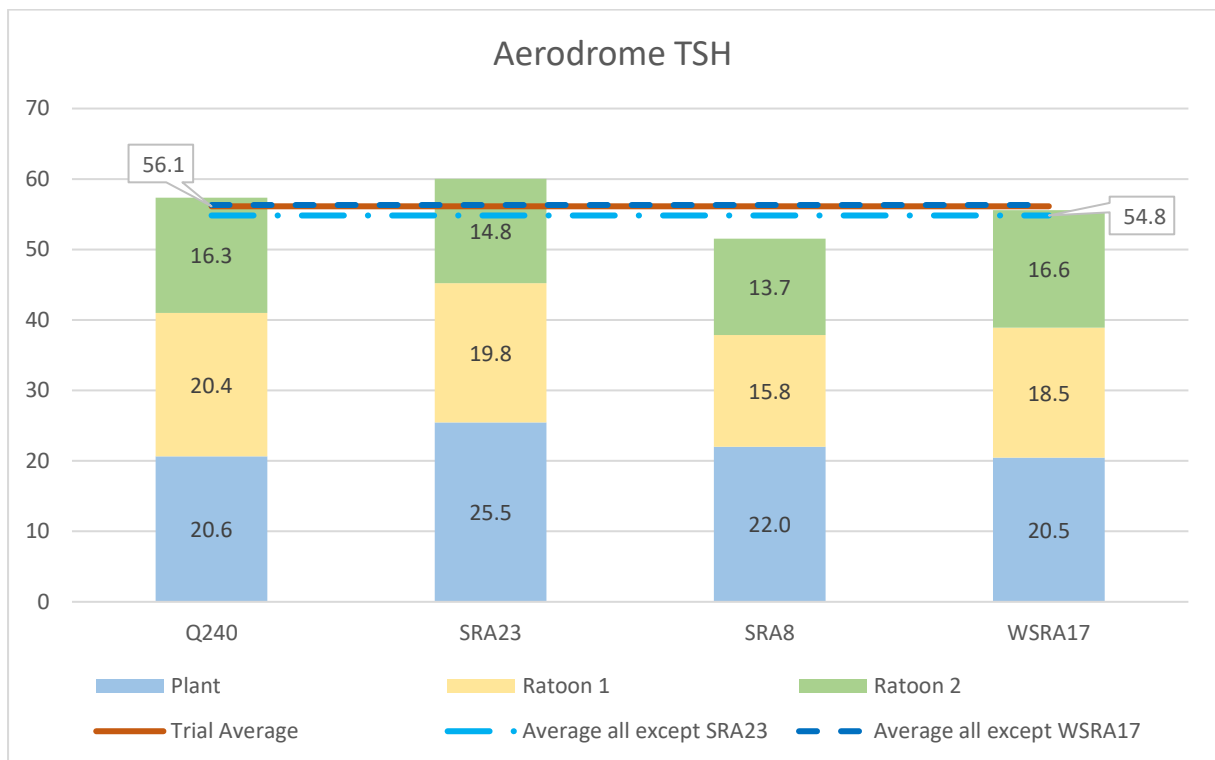
**Tonnes Cane per Hectare**



Variety	Plant	Ratoon 1	Ratoon 2	Trial Average	Average all except SRA23	Average all except WSRA17
Q240	155	124	101	375	369	369
SRA23	170	124	99	375	369	369
SRA8	150	99	85	375	369	369
WSRA17	164	123	107	375	369	369

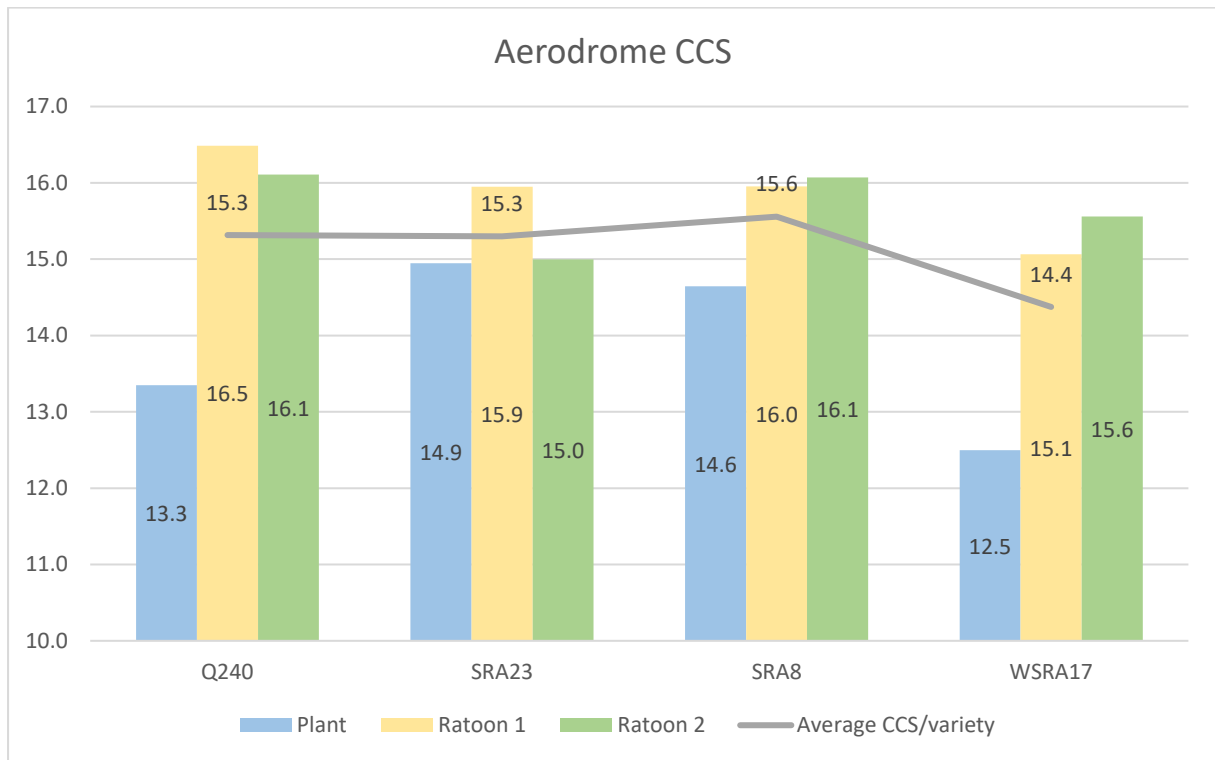


## Tonnes Sugar per Hectare



Variety	Plant	Ratoon 1	Ratoon 2	Trial Average	Average all except SRA23	Average all except WSRA17
Q240	20.6	20.4	16.3	56.1	54.8	56.3
SRA23	25.5	19.8	14.8	56.1	54.8	56.3
SRA8	22.0	15.8	13.7	56.1	54.8	56.3
WSRA17	20.5	18.5	16.6	56.1	54.8	56.3

## CCS



Variety	Plant	Ratoon 1	Ratoon 2	Average CCS/variety
Q240	13.3	16.5	16.1	15.3
SRA23	14.9	15.9	15.0	15.3
SRA8	14.6	16.0	16.1	15.6
WSRA17	12.5	15.1	15.6	14.4

**Site:** Iona/Fredericksfield

**Soil Type:** Delta clay loam (non-cracking clays and clay loams)

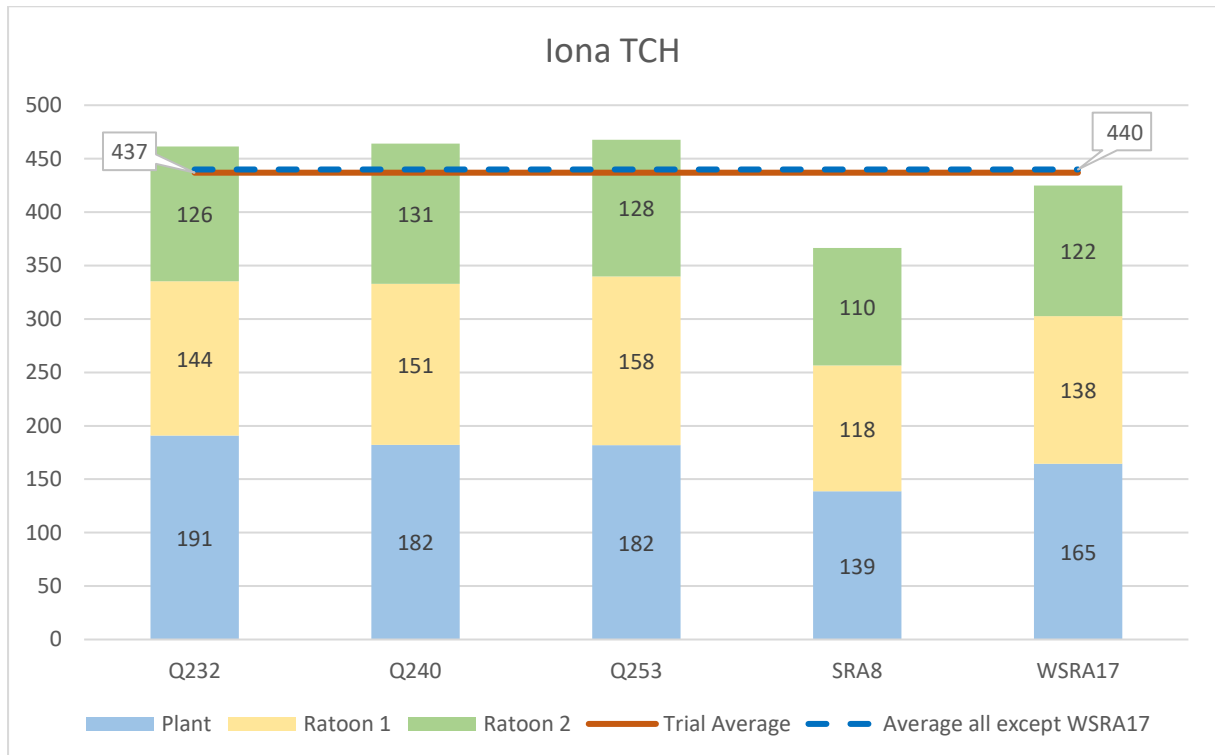
**Planted:** April 2016

**Plant cane harvest:** August 2017

**First ratoon harvest:** September 2018

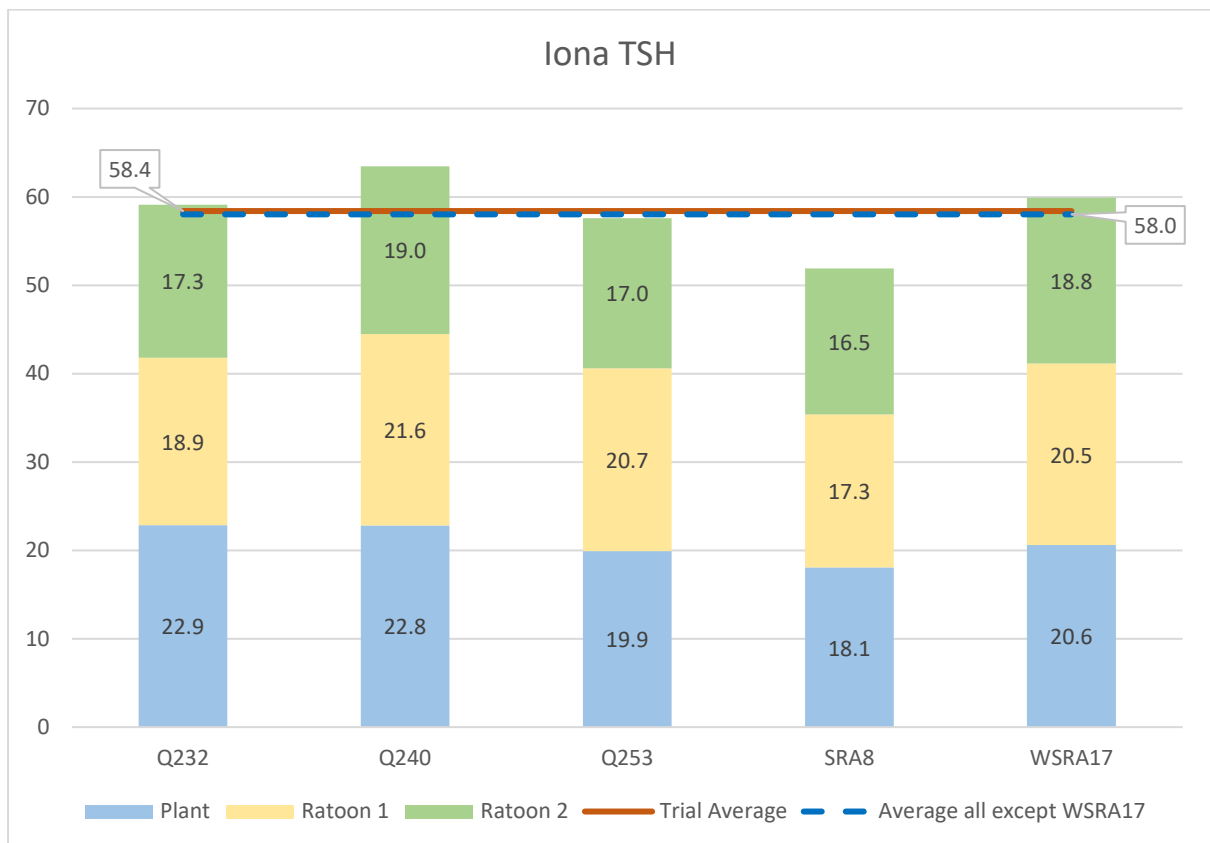
**Second ratoon harvest:** September 2019

**Tonnes Cane per Hectare**



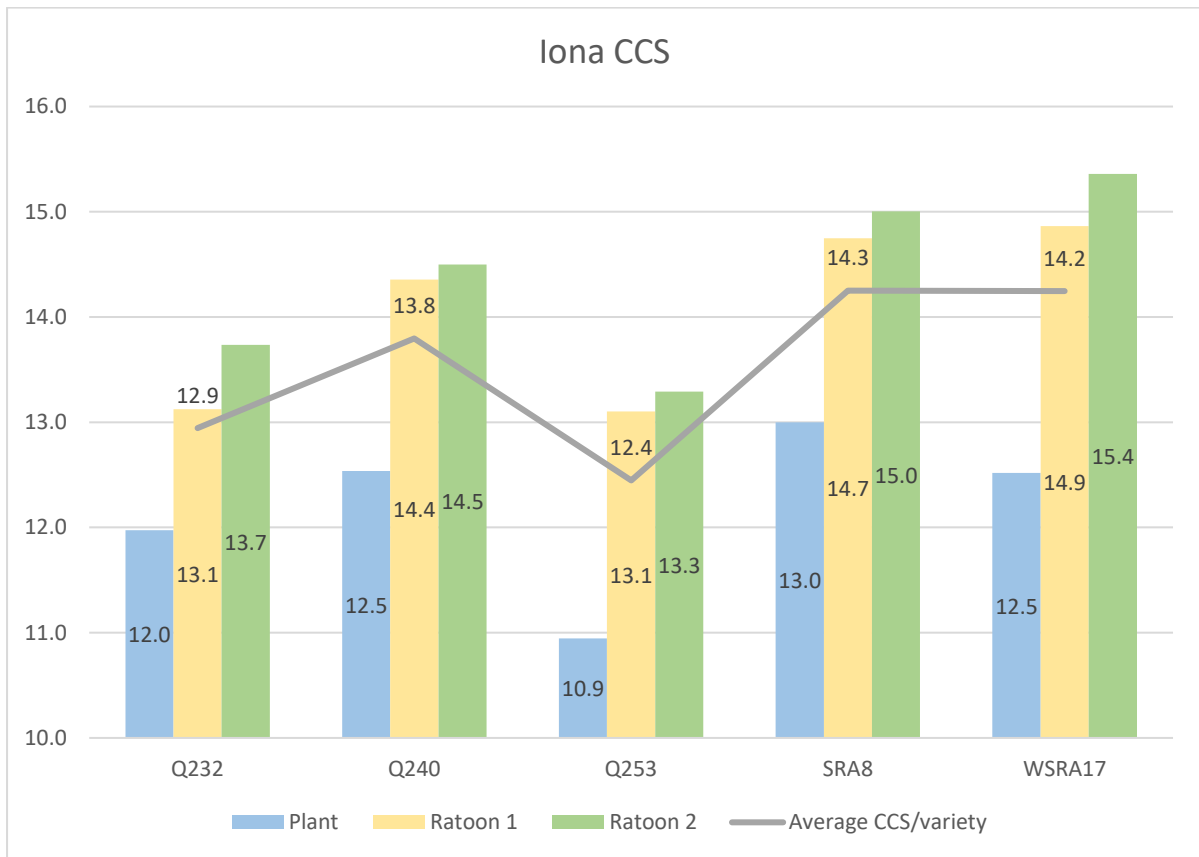
Variety	Plant	Ratoon 1	Ratoon 2	Trial Average	Average all except WSRA17
Q232	191	144	126	437	440
Q240	182	151	131	437	440
Q253	182	158	128	437	440
SRA8	139	118	110	437	440
WSRA17	165	138	122	437	440

## Tonnes Sugar per Hectare



Variety	Plant	Ratoon 1	Ratoon 2	Trial Average	Average all except WSRA17
Q232	22.9	18.9	17.3	58.4	58.0
Q240	22.8	21.6	19.0	58.4	58.0
Q253	19.9	20.7	17.0	58.4	58.0
SRA8	18.1	17.3	16.5	58.4	58.0
WSRA17	20.6	20.5	18.8	58.4	58.0

**CCS**



Variety	Plant	Ratoon 1	Ratoon 2	Average CCS/variety
Q232	12.0	13.1	13.7	12.9
Q240	12.5	14.4	14.5	13.8
Q253	10.9	13.1	13.3	12.4
SRA8	13.0	14.7	15.0	14.3
WSRA17	12.5	14.9	15.4	14.2

## Site: Stockham Road

**Soil Type:** Sodic duplex

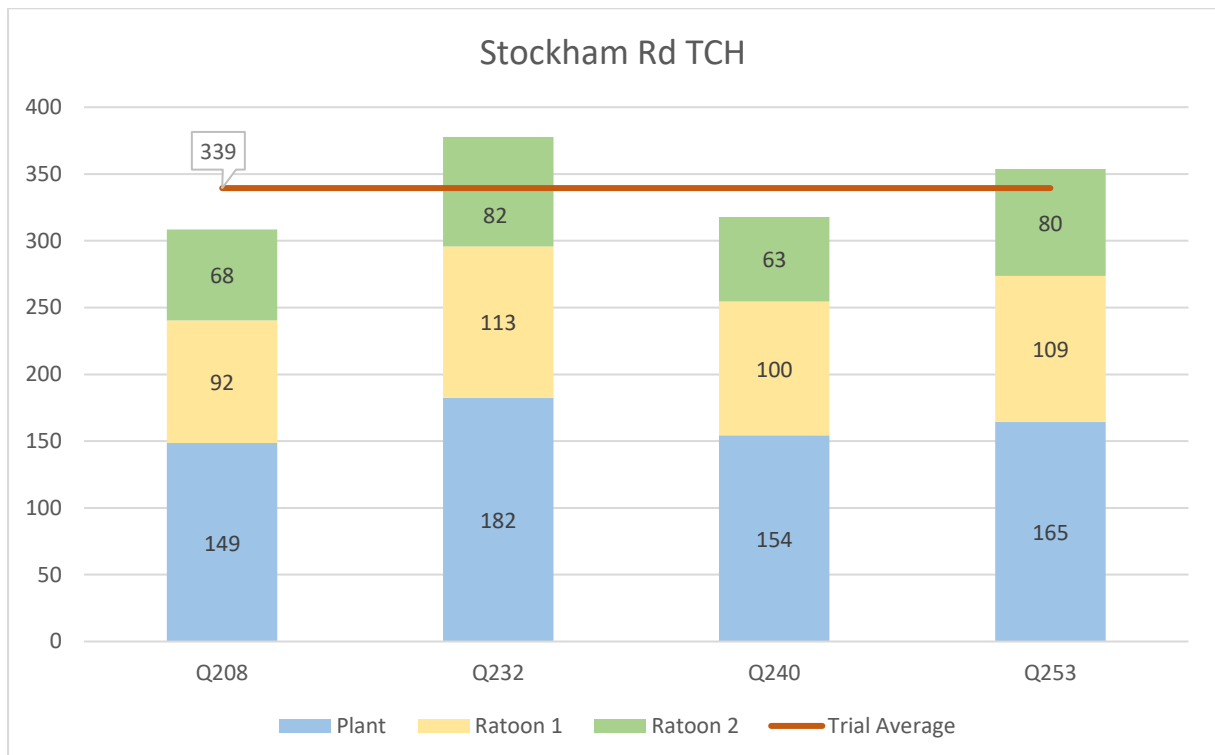
**Planted:** April 2016

**Plant cane harvest:** August 2017

**First ratoon harvest:** September 2018

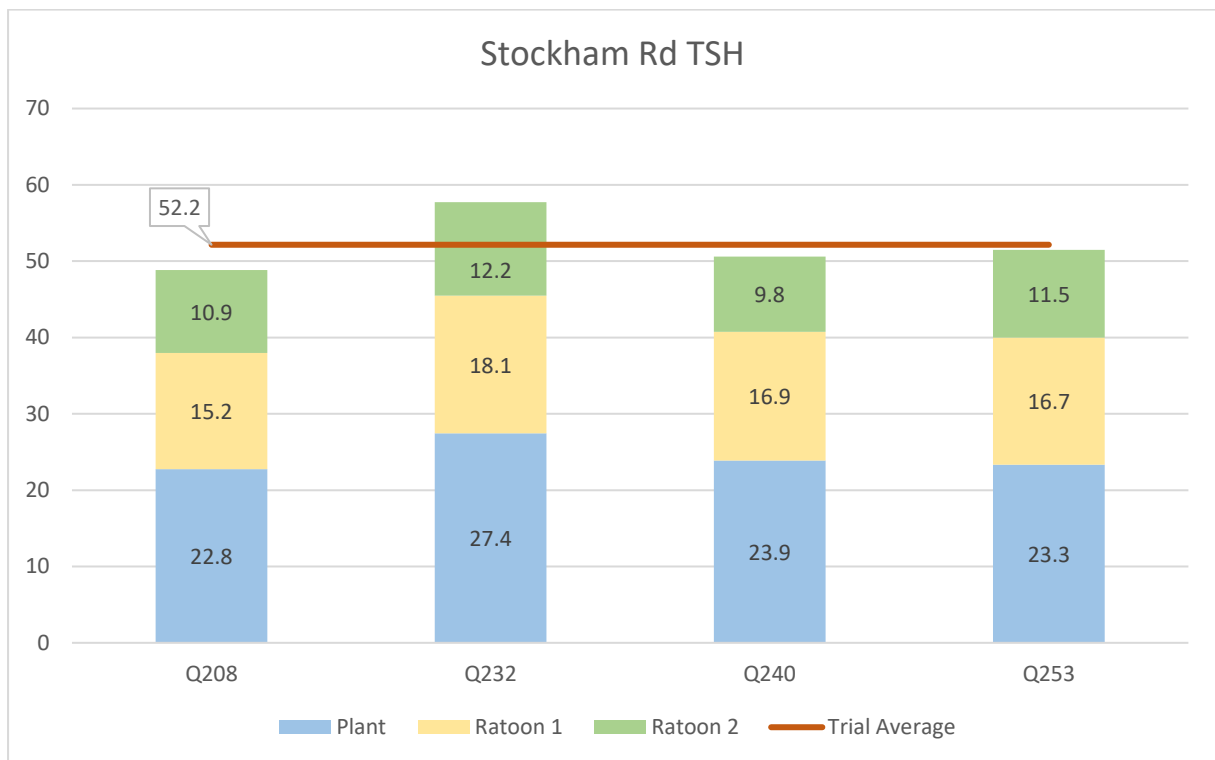
**Second ratoon harvest:** October 2019

### Tonnes Cane per Hectare



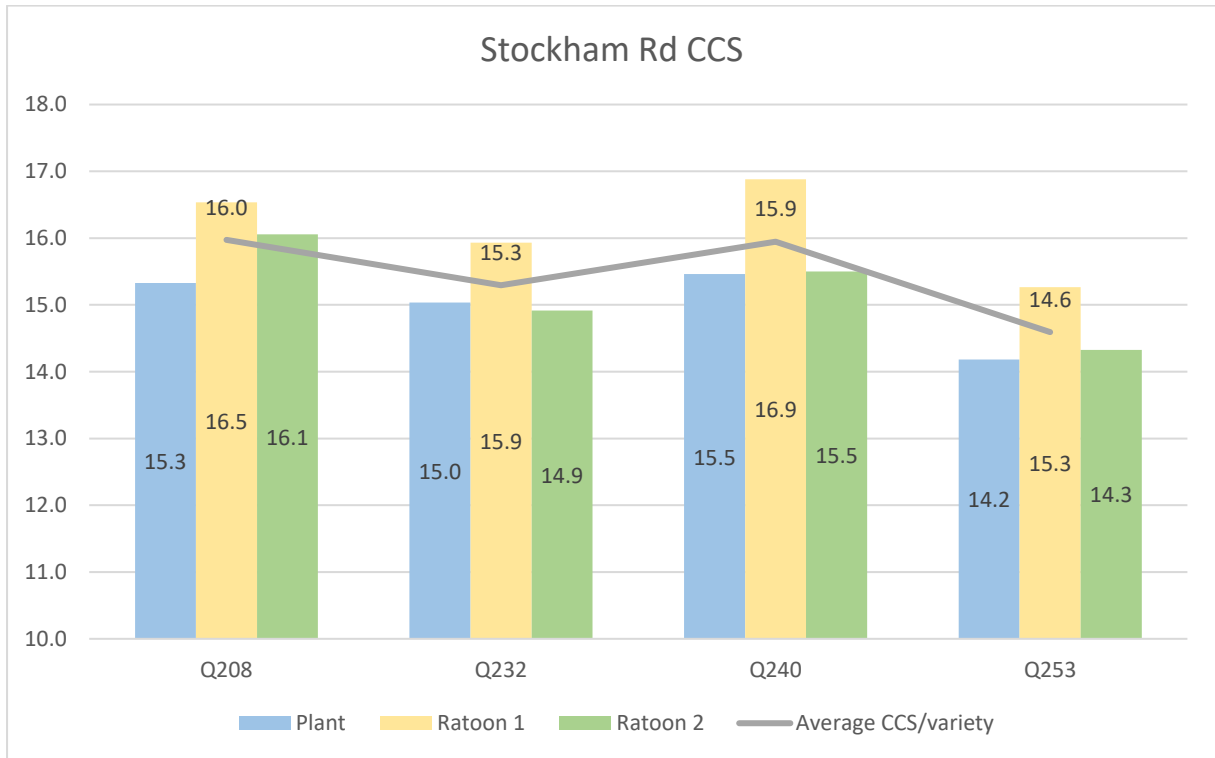
Variety	Plant	Ratoon 1	Ratoon 2	Trial Average
Q208	149	92	68	339
Q232	182	113	82	339
Q240	154	100	63	339
Q253	165	109	80	339

## Tonnes Sugar per Hectare



Variety	Plant	Ratoon 1	Ratoon 2	Trial Average
Q208	22.8	15.2	10.9	52.2
Q232	27.4	18.1	12.2	52.2
Q240	23.9	16.9	9.8	52.2
Q253	23.3	16.7	11.5	52.2

**CCS**



Variety	Plant	Ratoon 1	Ratoon 2	Average CCS/variety
Q208	15.3	16.5	16.1	16.0
Q232	15.0	15.9	14.9	15.3
Q240	15.5	16.9	15.5	15.9
Q253	14.2	15.3	14.3	14.6