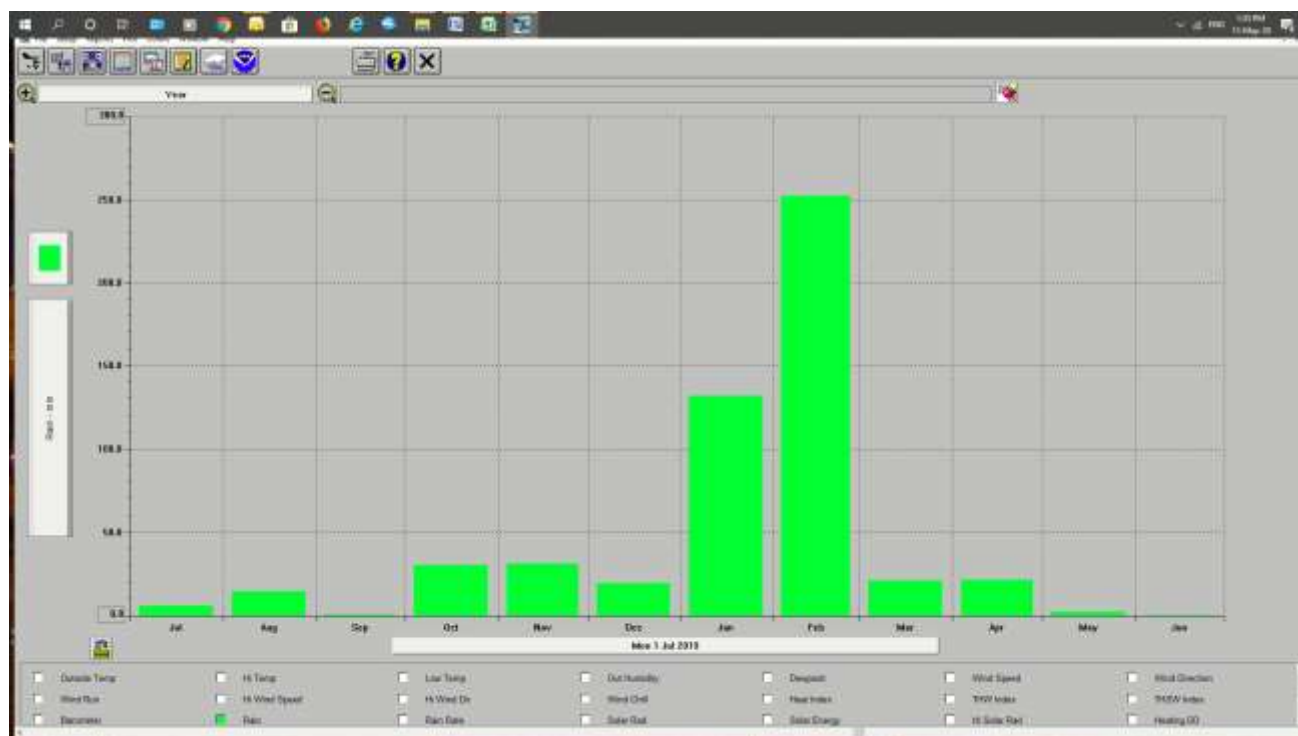


## Milestone D 7.1: Attachment A - Crop water use

### Evapotranspiration (ET<sub>0</sub>) July 2019 – May 2020 recorded at Manoo trial site weather station



## Irrigation Analysis

### 2019-2020 Potential Irrigation demand -irrigation applied

Potential crop water use July 2019 - May 2020												
	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
<b>Daily evapotranspiration (Recorded)</b>	2.8	3.5	4.7	5	6	5	6	5	4	4	3	
<b>Potential crop evapotranspiration based on crop factors per crop class</b>												
<b>Early harvest ratoon (mm/ha)</b>	0.27	0.58	1.6	2.52	4.8	5.4	6.0	5.0	4.0	4.0	2.3	
<b>Mid harvest ratoon (mm/ha)</b>	0.0	0.0	0.4	1.26	3.6	4	6.0	5.0	4.0	4.0	2.3	
<b>20% late harvest ratoon (mm/ha)</b>	0.0	0.0	0.0	0.42	2.4	3	4.8	5.0	4.0	4.0	2.3	
<b>Per day (av) mm/ha</b>	0.1	0.2	0.7	1.4	3.6	4.1	5.6	5.0	4.0	4.0	2.3	
<b>Average farm monthly crop moisture demand</b>												
<b>Days per mth</b>	31	31	30	31	30	31	31	28	31	30	31	335
<b>Daily demand (mm/day/ha)</b>	0.1	0.2	0.7	1.4	3.6	4.1	5.7	5.0	4.0	4.0	2.3	
<b>Monthly demand (mm/mth/ha)</b>	3	6	20	43	108	128	177	140	124	120	70	939
<b>2019-20 Rainfall ( Manoo site weather station)</b>												
<b>2019-20 monthly (mm/mth)</b>	6.0	14.8	1.0	30.4	31.2	19.6	132	252	21	22	2	532
<b>2019-20 crop water balance and irrigation requirement</b>												
<b>Potential monthly crop water balance ( deficit - mm/mnth)</b>	0	0	19	13	77	109	45	0	0	98	68	428
<b>Irrigation required (mm/mth/ha) incl 20% app efficiency allowance</b>	0	0	23	16	92	130	54	0	0	118	81	513
<b>Long term average historical comparison</b>												
<b>Average rainfall Bundaberg region</b>												
<b>Average monthly effective (mm/mth) effective rain factor .7 applied</b>	27	24	25	55	59	89	120	109	79	39	47	673
<b>2019-20 Rainfall monthly water balance (deficit - mm/mth/ha)</b>	-21	-9	-24	-24	-28	-69	12	143	-58	-17	-45	-141

Rainfall received

= 5.32 ML/ha

July 2019 -May 2020 potential crop requirement

= 9.39 ML/ha

2019 -20 actual irrigation applied

= 2.65 ML/ha