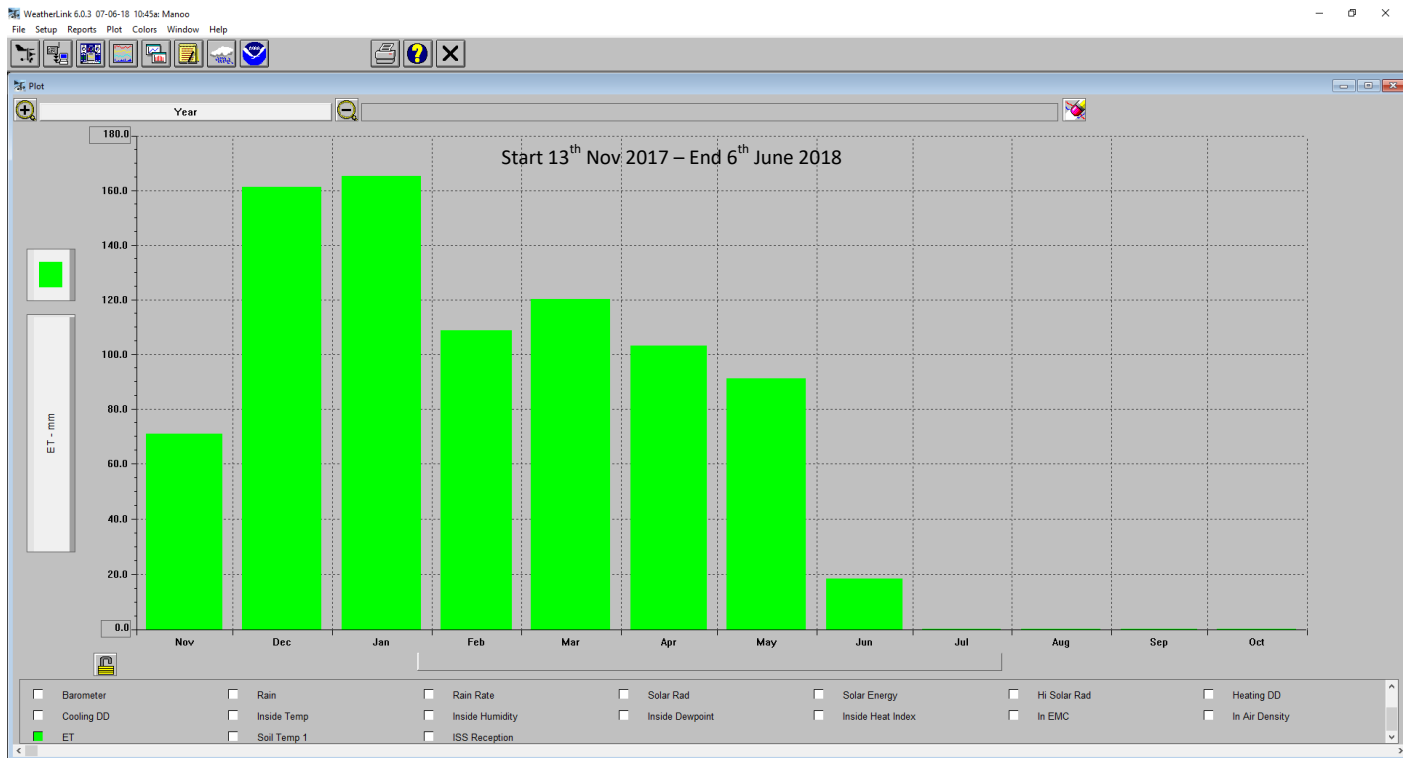


Milestone 3.1 - Attachment A: Review of irrigation program at Arena solar trial sit Killer farm Bundaberg

Potential (reference) evapotranspiration (ET) determined by weather and climate monitoring at trial site



Calculated soil water balance determined from potential (reference) ET x crop leaf area factors and farm crop rotation

Farm - Crop, Rain and Irrigation	Harvest period - commence irrigation			Main growth period - maintain irrigation as per crop water deficit							Dry down and harvest
Daily crop moisture demand (Reference ET * Crop Factor)											
Details	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	6 days of	Remainder of June
										June	July and August
Early season harvested ratoon 33%	1.5	3.5	5.2	5.6	6	4.5	4.25	3.2	3.0	3.0	commence harvest
Mid season harvested ratoon 33%	0	2	3	4	6	4.5	4.25	3.2	3.0	3.0	18 th June
Late season harvest ratoon 34%	0	0	1.5	3.6	6	4.5	4.25	3.2	3.0	3.0	no irrigation during
Farm average crop demand (mm/day)	0.5	1.8	3.2	4.4	6.0	4.5	4.3	3.2	3.0	3.0	Late June -Jul-Aug
Monthly Soil water Balance											
Details	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	6 days of	Total
										June	
Days	30	31	30	31	31	28	31	30	31	6	279
Average Farm Crop demand (mm/mnth)	15	57	97	136	186	126	132	96	93	18	956
Recorded Rainfall - mm/mnth (2017-2018)	0	305	96	103	62	241	41	13	20	0	881
Rainfall - crop moisture surplus /deficit	-15	248	-1	-33	-124	115	-91	-83	-73	-18	-75
Irrigation - farm average (mm/mnth)	0	0	0	0	30	22	12	6	14	6	90
Irrigation - surplus/deficit (mm/mnth)	-15	248	-1	-33	-94	137	-79	-77	-59	-12	15