

Supplementary Table 1 Meteorological parameters including precipitation (mm), shortwave radiation (W.m^{-2}) in the SAT and WAT sites during the experiments.

Month	The SAT site						The WAT site					
	Precipitation (mm)			shortwave radiation (W.m^{-2})			Precipitation (mm)			shortwave radiation (W.m^{-2})		
	2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016
January	0.25	1.16	0.80	151.32	127.05	117.95	0.14	0.68	0.05	160.97	149.94	160.96
February	0.97	0.37	0.20	146.56	154.54	167.81	0.47	0.08	0.15	191.10	196.25	163.60
March	1.94	0.74	1.95	179.93	161.35	173.30	0.67	0.33	0.67	250.10	243.71	227.04
April	2.75	3.65	4.62	195.20	207.92	192.50	1.63	2.98	2.04	269.60	224.36	243.84
May	5.07	8.67	5.19	198.18	181.21	206.54	2.30	1.29	4.26	255.47	242.44	246.31
June	5.79	12.37	6.13	171.03	164.44	203.11	4.59	6.68	7.32	205.27	214.83	237.35
July	12.35	2.02	3.76	211.13	208.25	222.76	8.08	5.13	4.29	214.57	239.88	227.62
August	4.59	4.79	4.39	206.38	190.93	208.85	10.67	9.73	3.12	222.14	198.53	231.86
September	2.62	3.52	1.00	194.76	157.39	186.17	4.44	2.79	3.89	203.11	159.32	163.92
October	3.33	3.57	1.94	168.70	157.46	151.57	2.54	4.83	1.00	181.65	182.72	173.47
November	3.16	1.39	2.32	122.67	132.64	125.26	0.98	0.09	0.49	140.29	171.33	158.26
December	0.16	1.69	1.19	128.08	116.46	122.00	0.07	0.48	0.48	129.85	132.12	140.94
Annual	3.58	3.66	2.79	172.83	163.30	173.15	3.05	2.92	2.31	202.01	196.29	197.93