Supplementary Materials S1



Location of Trials in Australia

1 – Bundaberg, QLD 4670 (24.931012S, 152.387825E)

2 – Emerald, QLD (23.5867S, 148.204072E)

3 – Burdekin QLD 4806 (19.675261 S, 147.453212 E)

Supplementary Materials S2



Figure a). Irrigation and H2O2 dosing system for continuous injection of two H2O2 products to 10 ppm of H2O2 for surface drip irrigation to chilli crop. Note the three submains dividing the nine rows.

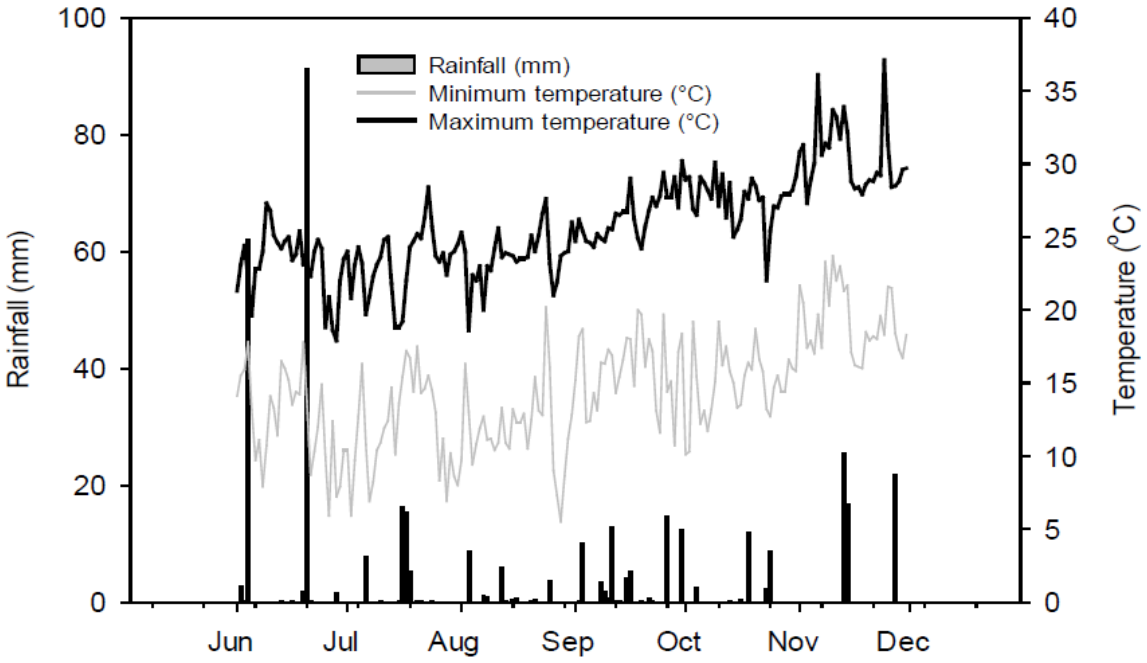


Figure b). Daily minimum and maximum temperatures and rainfall during chilli trial 2016, Bundaberg, Queensland, Australia.

Supplementary Materials S3



Figure a). Irrigation and dosing system set up for continuous dosing of two H2O2 products at10 ppm of H2O2 in above ground drip irrigation for table grapes.

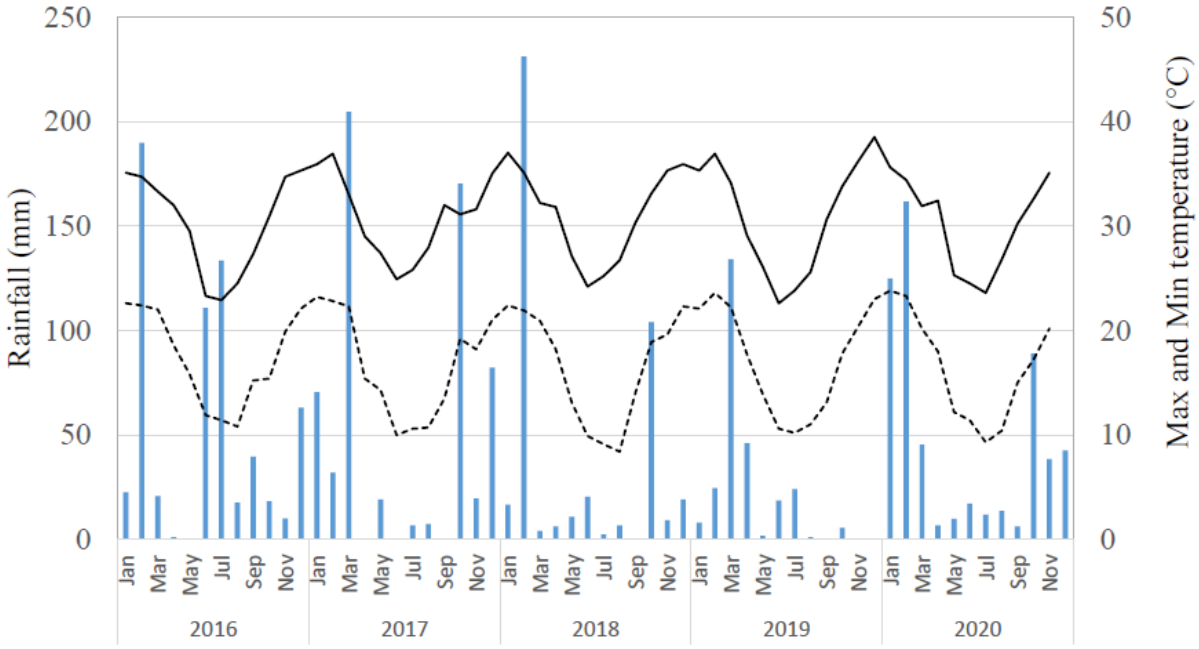


Figure b). Daily minimum and maximum temperature, and rainfall over four seasons during table grape trial period (2016 -2020) in Emerald, Queensland, Australia.

Soil analyses for the three blocks prior to the trial analysed by CSBP, Western Australia.

Name	Boron	Calcium	Carbon	Chloride	Copper	Iron	Magnesium
	mg/Kg	%	%	%	mg/kg	mg/kg	%
HP030	2.88	0.25	1.09	0.02	16.66	16292.45	0.16
HP3K	1.65	0.25	1.12	0.04	18.00	16250.00	0.19
Control	2.72	0.27	1.16	0.05	17.46	14340.00	0.17

Manganese	Nitrate	Phosphorus	Potassium	Sodium	Sulfur	Total Nitrogen	Zinc
mg/kg	mg/kg	%	%	%	%	%	mg/kg
469.06	< 40.00	0.04	0.10	0.02	< 0.02	0.05	38.35
490.20	< 40.00	0.08	0.12	0.02	< 0.02	0.07	44.06
505.10	< 40.00	0.04	0.11	0.02	< 0.02	0.04	39.94

Supplementary Materials S4



Figure a). Irrigation and dosing system set-up continuous for dosing of two H2O2 products to maintain 10 ppm of H2O2 in below ground (subsurface) drip irrigation for sugarcane.

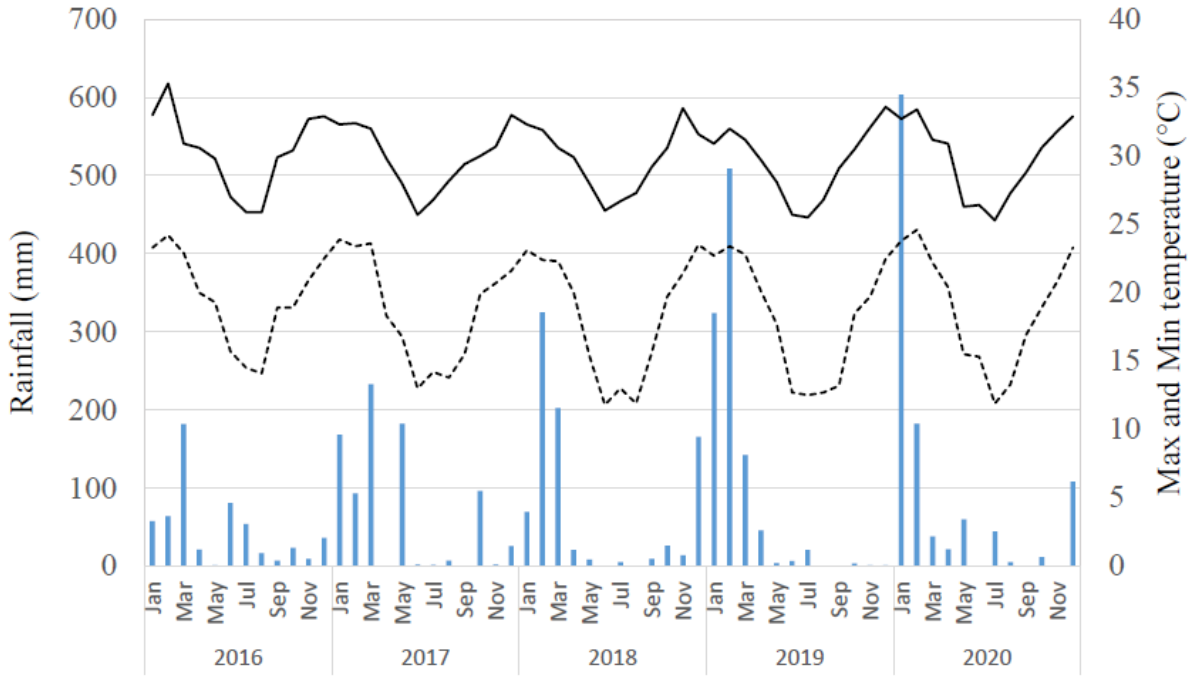


Figure b). Daily minimum and maximum temperature, and rainfall over four seasons during sugarcane trial period (2016 - 2020) in Homehill, Queensland, Australia.