

Enhancing yield of lettuce through irrigation and nitrogen management in a subtropical *Inceptisol*

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Supplementary material

Table S1. Physical and hydro-physical properties of the experimental soil.

Soil depth (cm)	Soil texture (%)			BD (Mg m ⁻³)	Ks (cm hr ⁻¹)	Infiltration (cm hr ⁻¹)	FC (%)	PWP (%)
	Sand	Silt	Clay					
0–15	70.1	15.8	14.1	1.5	2.4	1.8	23.6	11.1
15–30	72.4	16.2	11.4	1.5	2.2	1.5	21.4	10.7
30–45	78.9	12.3	8.8	1.6	2.3	1.2	19.5	9.4

FC: field capacity, PWP: permanent wilting point, BD: bulk density, Ks: hydraulic conductivity.

Table S2. Chemical properties of the experimental soil.

Soil depth (cm)	pH (1:2.5)	EC (dS m ⁻¹)	Organic C (g kg ⁻¹)	Available N (kg ha ⁻¹)	Available P (kg ha ⁻¹)	Available K (kg ha ⁻¹)
0–15	6.8	0.2	5.2	178	31.9	152
15–30	6.5	0.1	4.5	160	29.3	137
30–45	6.3	0.1	4.1	151	25.7	128

Table S3. Physical and chemical characters of vermicompost used.

Sl. No.	Parameter	Composition as per analysis
1	Moisture, per cent by weight	22
2	Particle size	92% materials passed through 4.0 mm IS sieve
3	Bulk density (g/cm ³)	0.8
4	Total organic carbon per cent by weight	25.3
5	Total nitrogen per cent by weight	1.1
6	Total phosphate (as P ₂ O ₅) per cent by weight	0.8
7	Total potash (as K ₂ O) per cent by weight	0.9

All the parameters passed the Fertilizer Control Order norms applicable in India.

Table S4. Irrigation scheduling adopted in lettuce plant.

Irrigation schedule	No. of irrigation	Irrigation water applied (mm)	Date of application
I ₁ : Conventional	5	170	23/11, 10/12, 25/12, 10/1, 25/1, 12/2
I ₂ : IW/CPE 0.6	2	80	23/11, 15/12, 21/1
I ₃ : IW/CPE 0.8	3	110	23/11, 09/12, 14/1, 08/2
I ₄ : IW/CPE 1.0	4	140	23/11, 02/12, 07/1, 27/1, 13/2

*Common irrigation of 20 mm depth for uniform plant establishment and irrigation regime.

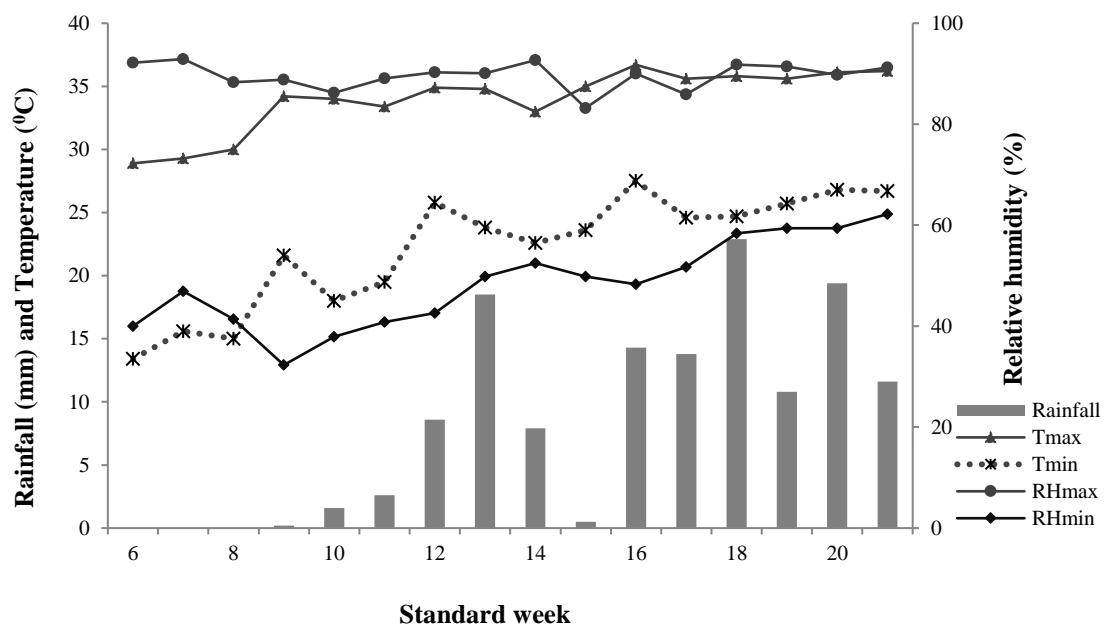


Figure S1. Meteorological data during the cropping period (3-year average).