

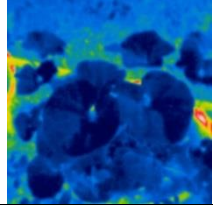
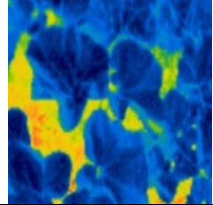
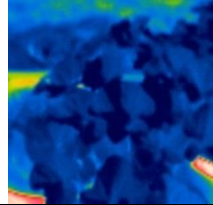
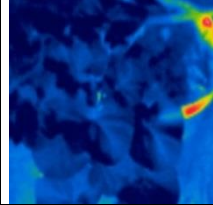
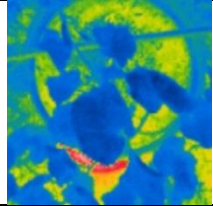
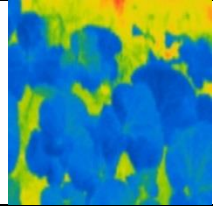
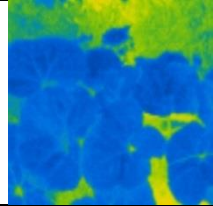
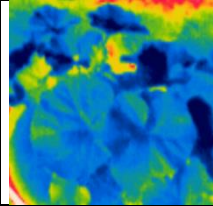
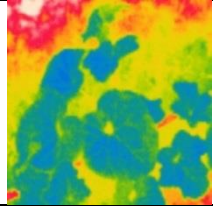
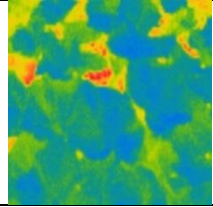
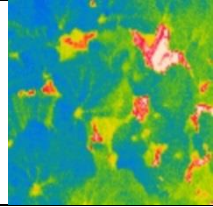
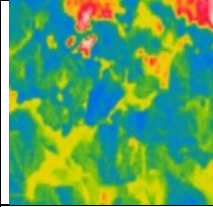
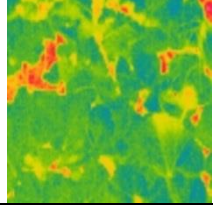
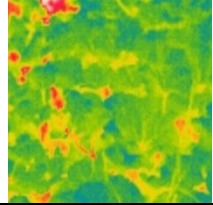
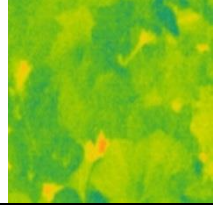
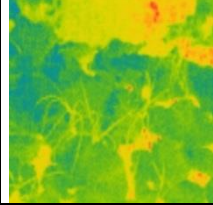
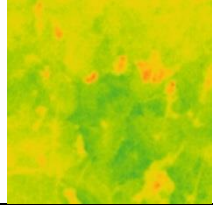
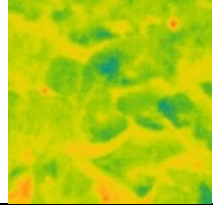
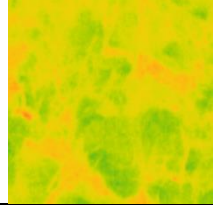
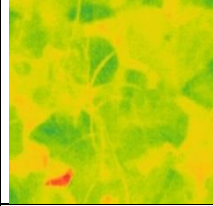
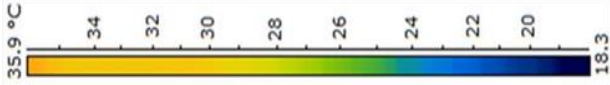
Tables

Table 1. Chemical and physical characteristics of the topsoil in the experimental area.

Chemical		Physical	
Parameters	Values	Parameters	Values
OM	28.46 g kg ⁻¹	Coarse sand	384 g kg ⁻¹
Mg	1.80 cmolc dm ⁻³	Fine sand	505 g kg ⁻¹
K	1.62 cmolc dm ⁻³	Silt	78 g kg ⁻¹
P	174 mg dm ⁻³	Clay	33 g kg ⁻¹
pH	8.3	Natural clay	29 g kg ⁻¹
Al	0.0	SD	1.44 g cm ⁻³
EC	1.02 dS m ⁻¹	PD	2.65 g cm ⁻³

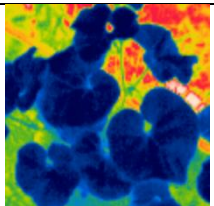
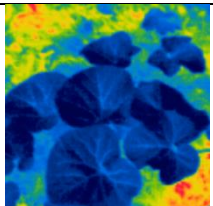
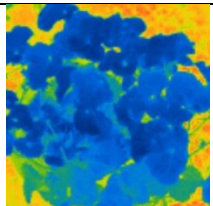
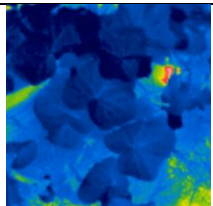
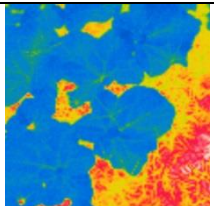
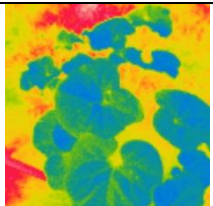
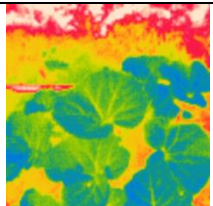
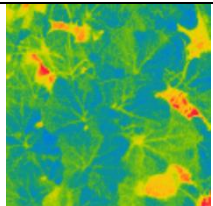
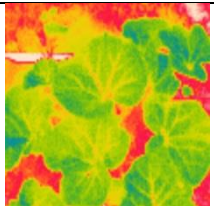
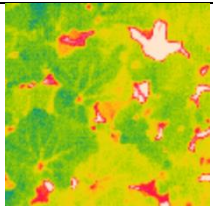
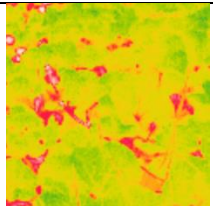
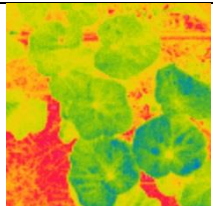
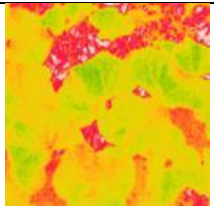
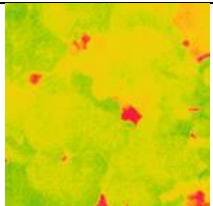
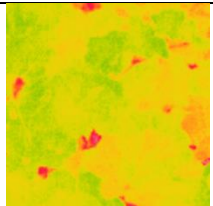
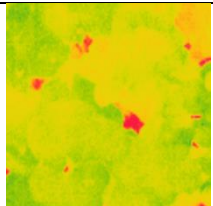
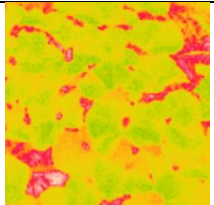
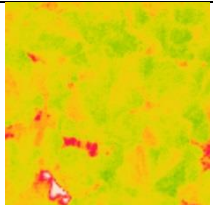
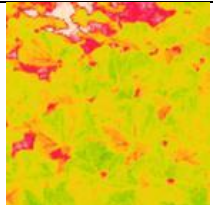
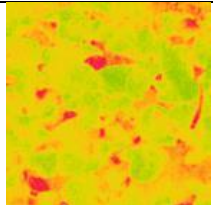
OM - organic matter, Mg - magnesium, K - potassium, P - phosphorus, pH - soil pH, Al - aluminum, SD - soil density, PD - particle density, EC – electrical conductivity of the soil saturation extract.

Table 2. Thermal images, thermal index, and productivity of melon under different irrigation regimes (IR₁ 120, IR₂ 100, IR₃ 80, IR₄ 60, and IR₅ 40% of ET_c) and growing in soil with mulching*

IR	15 DAT	30 DAT	45 DAT	60 DAT	Prod.
IR ₁					44.01 t ha ⁻¹
$\Delta(T_c-T_a)$	-3.2 °C	-3.3 °C	-3.4 °C	-3.4 °C	
IR ₂					43.98 t ha ⁻¹
$\Delta(T_c-T_a)$	-3.1 °C	-3.4 °C	-3.2 °C	-3.4 °C	
IR ₃					33.49 t ha ⁻¹
$\Delta(T_c-T_a)$	0.1 °C	-0.5 °C	0.3 °C	0.1 °C	
IR ₄					24.78 t ha ⁻¹
$\Delta(T_c-T_a)$	2.7 °C	2.7 °C	2.8 °C	2.7 °C	
IR ₅					13.20 t ha ⁻¹
$\Delta(T_c-T_a)$	2.8 °C	2.8 °C	3.1 °C	2.9 °C	
					

* The values of the thermal index $\Delta(T_{canopy} - T_{air})$ correspond to the average of nine measures taken for each treatment at each date of the evaluation.

Table 3. Thermal images, thermal index, and productivity of melon under different irrigation regimes (IR₁ 120, IR₂ 100, IR₃ 80, IR₄ 60, and IR₅ 40% of ET_c) and growing in soil without mulching*

Season	15 DAT	30 DAT	45 DAT	60 DAT	Prod.
IR ₁					43.67 t ha ⁻¹
$\Delta(T_c-T_a)$	-3.0 °C	-3.2 °C	-3.3 °C	-3.3 °C	
IR ₂					35.59 t ha ⁻¹
$\Delta(T_c-T_a)$	-2.9 °C	-3.0 °C	-3.1 °C	-3.2 °C	
IR ₃					25.68 t ha ⁻¹
$\Delta(T_c-T_a)$	1.1 °C	1.0 °C	1.4 °C	1.2 °C	
IR ₄					16.32 t ha ⁻¹
$\Delta(T_c-T_a)$	3.1 °C	3.2 °C	3.3 °C	3.2 °C	
IR ₅					11.00 t ha ⁻¹
$\Delta(T_c-T_a)$	3.2 °C	3.4 °C	3.7 °C	3.8 °C	
					

* The values of the thermal index $\Delta(T_{canopy} - T_{air})$ correspond to the average of nine measures taken for each treatment at each date of the evaluation.