

Supplementary information 2. Physico-chemical characteristics of soil and irrigation water**A. Physical Analysis of Soil**

D_b (g cm^{-3})	Soil Water Content (%)			Soil Particles (%)			Soil Texture
	SP	FC	PWP	Clay	Silt	Sand	
1.39	38	22	9	33	39	28	Clay Loam

B. Chemical Analysis of Soil: Soluble Chemicals

pH	EC (dS m^{-1})	SAR	Cations ($\text{meq } 100 \text{ g}^{-1} \text{ Soil}$)				Anions ($\text{meq } 100 \text{ g}^{-1} \text{ Soil}$)			
			Na^+	K^+	Ca^{2+}	Mg^{2+}	Cl^-	HCO_3^-	CO_3^-	SO_4^-
7.8	1.1	0.42	1.1	4.9	6.6	7.1	2.4	4.2	3.9	7.1

C. Chemical Analysis of Soil: Chemical Ingredients

CEC ($\text{meq } 100 \text{ g}^{-1} \text{ soil}$)	ESP (%)	CaCO_3 (%)	Organic Ingredients (%)		Macro-nutrient Ingredients ($\text{mg kg}^{-1} \text{ Soil}$)		
			OM	OC	Total	Available	Available
					N	P	K
19.7	5.58	10.4	0.76	0.41	0.06	8.1	96

D. Chemical Analysis of Irrigation Water: Soluble Chemicals

pH	EC (dS m^{-1})	SAR	Cations (meq L^{-1})				Anions (meq L^{-1})			
			Na^+	K^+	Ca^{2+}	Mg^{2+}	Cl^-	HCO_3^-	CO_3^-	SO_4^-
7.4	0.7	0.16	0.3	2.9	3.6	3.1	3.9	3.5	3.1	2.8

D_b : soil bulk density; SP: saturation point; FC: field capacity; PWP: permanent wilting point; pH: power of H^+ ; EC: electrical conductivity; SAR: sodium adsorption ratio; CEC: cation exchange capacity; ESP: exchangeable sodium percentage.