

Supplementary Table 1. Electrical conductivity of the drainage water (EC_{dw}) and quotient EC_{dw}/EC_{se} for the Segura river water and for the desalinated water

Crop ^{a,b,c}	EC _{se(Y)} / dS m ⁻¹	Traditional LR		WATSUIT		SALSODIMAR		SALTIRSOIL ^d		
		EC _{dw} / dS m ⁻¹	EC _{dw} / EC _{se(Y)}	EC _{dw} / dS m ⁻¹	EC _{dw} / EC _{se(Y)}	EC _{dw} / dS m ⁻¹	EC _{dw} / EC _{se(Y)}	EC _{dw} / EC _{se(Y)}	EC _{dw} / dS m ⁻¹	EC _{dw} / EC _{se(Y)}
Segura river water										
Artichoke	5.8	24.9	4.3	24.4	4.2	—	—	5.8	15.6	2.7
Melon-Broccoli	3.6	13.4	3.8	9.5	2.7	—	—	3.6	5.7	1.6
Melon-Potato	2.5	8.3	3.3	5.7	2.2	—	—	—	—	—
Date palm	6.8	29.7	4.4	33.4	4.9	—	—	6.8	21.6	3.2
Orange	2.3	7.3	3.1	—	—	—	—	—	—	—
Lemon × SO	2.5	8.1	3.3	5.5	2.2	—	—	—	—	—
Lemon × MC	2.8	9.7	3.5	6.7	2.4	—	—	—	—	—
Lemon × CM	1.7	—	—	—	—	—	—	—	—	—
Lemon	2.2	6.6	3.0	—	—	—	—	—	—	—
Pomegranate	4.3	17.2	4.0	13.7	3.2	—	—	4.4	8.9	2.0
Desalinated water										
Artichoke	5.8	28.6	4.9	9.8	1.7	—	—	1.9	5.1	2.6
Melon-Broccoli	3.6	17.1	4.8	9.8	2.8	—	—	2.0	4.4	2.2
Melon-Potato	2.5	12.0	4.8	9.8	3.9	—	—	2.1	4.6	2.2
Date palm	6.8	33.4	4.9	9.8	1.4	—	—	2.9	21.5	7.5
Orange	2.3	11.0	4.7	8.0	3.4	—	—	2.3	5.2	2.2
Lemon × SO	2.5	11.8	4.8	9.8	4.0	—	—	1.7	4.2	2.4
Lemon × MC	2.8	13.4	4.8	9.8	3.5	—	—	1.7	4.2	2.4
Lemon × CM	1.7	8.0	4.6	9.8	5.7	—	—	1.7	4.2	2.4
Lemon	2.2	10.3	4.7	9.8	4.5	—	—	1.7	4.2	2.4
Pomegranate	4.3	20.9	4.9	9.8	2.3	—	—	1.8	4.0	2.2

^aSO: Sour orange, ^bMC: Mandarin cleopatra, ^cCM: *Cytrus macrophylla*, ^d $EC_{se(S)}$: electrical conductivity resulting from simultaneous no water and no salinity stress conditions according to SALTIRSOIL