

Table 1

Properties and K factor values corresponding to soil used in this study

Soil	OM %	Permeability	Structure	Silt %	Clay %	Fine sand %	K (t ha h ha ⁻¹ MJ ⁻¹ mm ⁻¹)
Reference	1.53	Moderately slow-4	Medium granular-3	45.4	42.5	4.03	0.0326
Alpeorajo	3.18	Moderately slow-4	Fine granular-3	43.8	40.1	5.42	0.0296
Olive leaves	14.43	Moderately-3	Fine granular-2	43.3	31.2	8.56	0.0249

OM – organic matter; Alpeorajo – product of the two-step olive oil will process.

Table 2

Selected properties corresponding to soil in this study

Soil	Sand %	Fine sand %	Silt %	Clay %	Density gr cm ⁻³	pF 1/3 %	pF 15 %	pH	CO ₃ ²⁻ %	CEC cmol + kg ⁻¹	V %	OM %	OC %	N %
Reference	12.1	4.03	45.4	42.5	1.36	33.02	20.48	8.4	68.79	16.17	100	1.5	0.9	0.09
Alpeorajo	16.2	5.42	43.8	40.0	1.26	31.74	23.43	8.3	66.67	18.02	100	3.2	1.8	0.14
Olive leaves	25.7	8.56	43.3	31.0	0.49	45.44	31.73	8.2	48.48	28.04	100	14.4	8.4	0.57

OM – organic matter; CEC – cation exchange capacity; V – base saturation; OC – organic carbon.

Table 3

Decomposition C factor

Soil	PLU	CC	SC	SR	SM	C
Reference	1.0	1.0	1.0	0.708	1.0	0.708
Alpeorajo	0.95	1.0	0.4	0.708	1.0	0.27
Olive leaves	0.5	1.0	0.28	0.708	1.0	0.1

Alpeorajo – product of the two-step olive oil will process.