

SUPPLEMENTARY MATERIAL

Table S1. Riverbank forest: implementation and maintenance activities.

Work units	Fuel consumption (litres)	Emission factor (Kg CO ₂ eq/l)	CO ₂ eq emission (t CO ₂ eq)
Initial clearing of the plot	2,965.76	2.79	8.27
Hole digging	2,768.64	2.79	7.72
Hole filling with topsoil	3,955.84	2.79	11.04
First irrigation	9,228.80	2.79	25.75
Machinery			52.8
Transport of plants and other materials	793.08	2.79	2.21
Transport			2.21

Work units	Fertilizer (kilograms)	Emission factor (Kg CO ₂ eq/kg)	CO ₂ eq emission (t CO ₂ eq)
Fertilization	762.72	2.00	1.53
Inputs			1.53

Work units	Water (m ³)	Emission factor (g CO ₂ eq/m ³)	CO ₂ eq emission (t CO ₂ eq)
Water	738.26	395.00	0.29
Irrigation			0.29

Table S2. Energy crops: implementation and maintenance activities.

Work units	Fuel consumption (litres)	Emission factor (Kg CO ₂ eq/l)	CO ₂ eq emission (t CO ₂ eq)
Initial clearing of the plot	388.36	2.79	1.08
Hole digging	363.09	2.79	1.01
Hole filling with topsoil	518.70	2.79	1.45
First irrigation	1,208.97	2.79	3.37
Machinery			6.92
Transport of plants and other materials	99.14	2,79	0.28
Transport			0.28

Work units	Fertilizer (kilograms)	Emission factor (Kg CO ₂ eq/ kg)	CO ₂ eq emission (t CO ₂ eq)
Fertilization	99.94	2.00	0.20
Inputs			0.20

Work units	Water (m ³)	Emission factor (g CO ₂ eq/ m ³)	CO ₂ eq emission (t CO ₂ eq)
Water	96.72	395	0.04
Irrigation			0.04

Table S3. Forest park: implementation and maintenance activities.

Work units	Fuel consumption (litres)	Emission factor (Kg CO ₂ eq/l)	CO ₂ eq emission (t CO ₂ eq)
Initial clearing of the plot	421.40	2.79	1.18
Hole digging	1,264.20	2.79	3.53
Hole filling with topsoil	1,806.00	2.79	5.04
First irrigation	4,214.00	2.79	11.76
Machinery			21.50
Transport of plants and other materials	213.14	2.79	0.59
Transport			0.59

Work units	Fertilizer (kilograms)	Emission factor (Kg CO ₂ eq/ kg)	CO ₂ eq emission (t CO ₂ eq)
Fertilization	344.25	2.00	0.69
Inputs			0.69

Work units	Water (m ³)	Emission factor (g CO ₂ eq/ m ³)	CO ₂ eq emission (t CO ₂ eq)
Water	333.20	395.00	0.13
Irrigation			0.13

Table S4 Fruticulture area: implementation and maintenance activities.

Work units	Fuel consumption (litres)	Emission factor (Kg CO ₂ eq/l)	CO ₂ eq emission (t CO ₂ eq)
Initial clearing of the plot	2,454.48	2.79	6.85
Hole digging	2,291.52	2.79	6.39
Hole filling with topsoil	3,272.64	2.79	9.13
First irrigation	7,635.60	2.79	21.30
Machinery			43.68
Transport of plants and other materials	594.81	2.79	1.66
Transport			1.66

Work units	Fertilizer (kilograms)	Emission factor (Kg CO ₂ eq/ kg)	CO ₂ eq emission (t CO ₂ eq)
Fertilization	631.20	2.00	1.26
Inputs			1.26

Work units	Water (m ³)	Emission factor (g CO ₂ eq/ m ³)	CO ₂ eq emission (t CO ₂ eq)
Water	610.91	395.00	0.24
Irrigation			0.24

Table S5 Urban edible garden: implementation and maintenance activities.

Work units	Fuel consumption (litres)	Emission factor (Kg CO ₂ eq/l)	CO ₂ eq emission (t CO ₂ eq)
Soil tilling	15,019.20	2.79	41.90
Machinery			41.90
Transport of seeds/ plants and other materials	3,990.00	2.79	11.13
Transport			11.13

Work units	Fertilizer (kilograms)	Emission factor (Kg CO ₂ eq/ kg)	CO ₂ eq emission (t CO ₂ eq)
Fertilization	14,728.00	2.00	29.46
Inputs			29.46

Work units	Water (m ³)	Emission factor (g CO ₂ eq/ m ³)	CO ₂ eq emission (t CO ₂ eq)
Water	14,254.52	395.00	5.63
Irrigation			5.63

Table S6 Cereal area: implementation and maintenance activities.

Work units	Fuel consumption (litres)	Emission factor (Kg CO ₂ eq/l)	CO ₂ eq emission (t CO ₂ eq)
Soil tilling	25,747.2	2.79	71.83
Machinery			71.83
Transport of seeds and other materials	6,840.00	2.79	19.08
Transport			19.08

Work units	Fertilizer (kilograms)	Emission factor (Kg CO ₂ eq/ kg)	CO ₂ eq emission (t CO ₂ eq)
Fertilization	6,312.00	2.00	12.62
Inputs			12.62

Work units	Water (m ³)	Emission factor (g CO ₂ eq/ m ³)	CO ₂ eq emission (t CO ₂ eq)
Water	6,109.08	395.00	2.413
Irrigation			2.413