

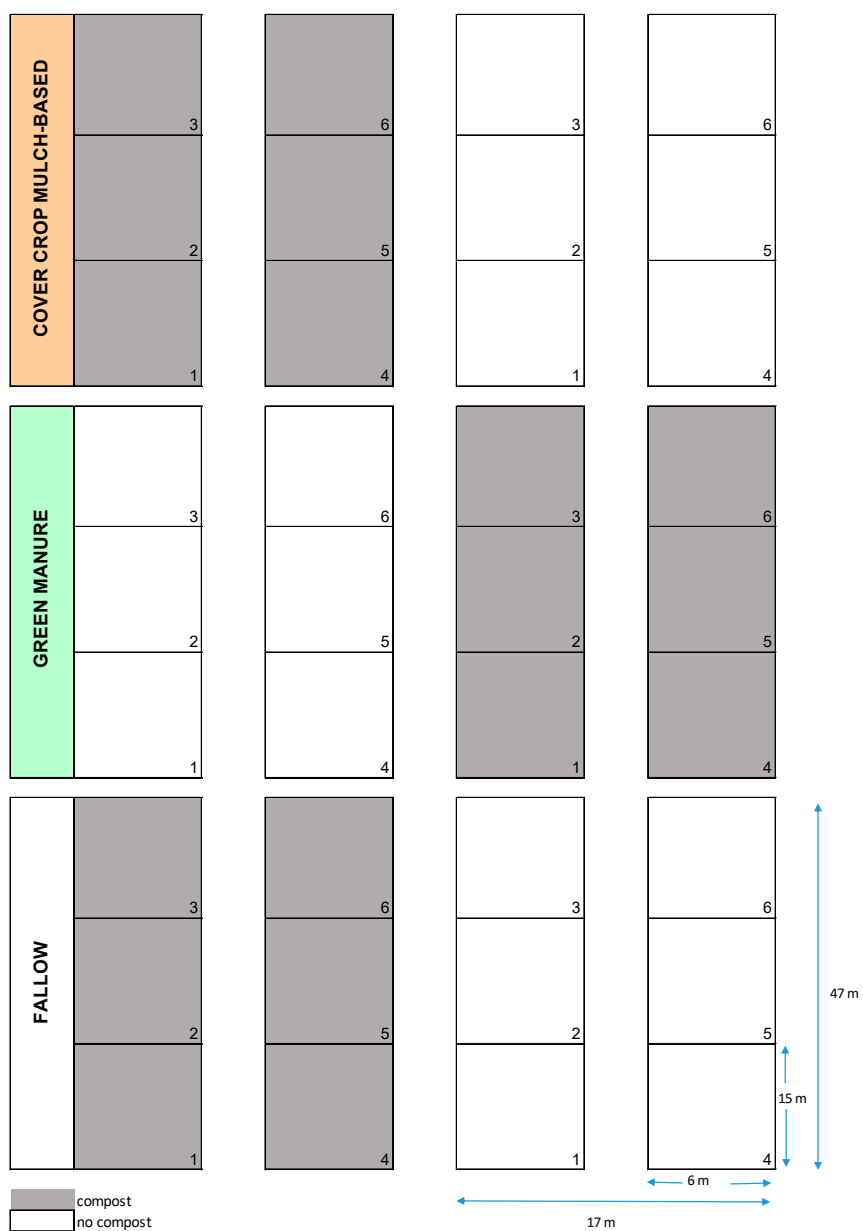


Figure S1: Experimental design and distribution of chemical-physical soil parameters (in brackets standard deviation $n=2$) of the field trial carried out at Cesa (AR) from 2017 to 2020. Numbers from 1 to 6 indicate the replicated plots.

Table S1: Means and related standard deviation (n=16), Anova or Deviance table according to normal or gamma logarithmic distribution of data sets of six soil parameters measured in 16 sampling points of the field trial.

Soil variables	Mean	Standard deviation	Sum of squares	Chi squares	df	Prob. level
pH	7.4	0.33		0.314	3	0.957
Electr. conduc. (dS/m)	0.123	0.02		0.777	3	0.854
N tot (g kg ⁻¹)	0.72	0.07		2.647	3	0.449
C org (g kg ⁻¹)	5.5	0.26	0.283		3	0.248
C/N	7.7	0.66	1.284		3	0.440
C.E.C. (meq 100 g ⁻¹)	16.3	1.60		0.691	3	0.875