

Supplementary Table 1. Soil chemical properties before and after Italian ryegrass cultivation in three years

		Exchangeable cations						
Treatment		pH	OM	Av. P <sub>2</sub> O <sub>5</sub>	K	Ca	Mg	EC
		(1:5)	(g kg <sup>-1</sup> )	(mg kg <sup>-1</sup> )	(cmol+ kg <sup>-1</sup> )			dS m <sup>-1</sup>
2019–	Before IRG	6.5	11	94	0.3	4.1	0.5	0.2
2020	After IRG	6.4	10.9	112.8	0.3	4.9	0.6	0.4
2020–	Before IRG	6.5	8.7	221	0.2	4.3	0.5	0.1
2021	After IRG	6.7	10.7	98	0.2	5.8	0.5	0.1
2021–	Before IRG	6.6	9.5	100	0.2	3.4	0.3	0.2
2022	After IRG	6.0	8.6	102	0.3	4.2	0.6	0.1