

(Pisciotta et al., Supplementary material)

Table S1. Mean daily temperature (°C) and total monthly rainfall (mm) (2009-2011), at San Marco, Sicily, 37.325N, 13.002E

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean/sum
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<i>2009</i>													
Temperature	12.2	10.6	13.2	15.5	20.6	24.2	27.6	28.1	24.4	19.7	16.5	14.7	18.9
Rainfall	173.7	87.1	40.6	53.3	5.4	1.4	0.0	3.9	76.9	116.2	33.5	65.2	657.2
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<i>2010</i>													
Temperature	12.3	13.1	14.0	16.6	19.5	23.5	27.5	27.4	23.8	20.2	17.1	13.5	19.0
Rainfall	74.4	52.7	55.1	19.9	17.2	2.4	0.0	0.7	62.8	136.0	41.8	33.7	496.7
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<i>2011</i>													
Temperature	12.0	11.1	12.8	16.6	19.2	23.6	27.0	26.9	25.5	19.9	17.0	13.5	18.8
Rainfall	82.2	68.7	48.6	43.5	22.2	2.3	0.0	0.1	18.1	88.9	54.8	63.3	492.7

Table S2. Values of Nitrogen inputs (kg ha⁻¹) provided by cover crop (CC) biomass and vine Pruning Residue (PR) biomass ± standard deviation

	CC		PR	
	Kg ha ⁻¹	s.d.	Kg ha ⁻¹	s.d.
F				
CT				
CC	84.9	1.8		
CT+PR			10.5	4.0
CC+PR	100.5	5.0	9.5	4.8
UF				
CT				
CC	42.7	4.7		
CT+PR			8.2	3.3
CC+PR	88.1	8.0	9.0	6.1

F= fertilization with Urea (200 kg ha⁻¹); UF= unfertilized. Soil Management: CT= Conventional Tillage; CC= Cover Crops; CT+PR= Conventional Tillage plus Pruning Residue; CC+PR= Cover Crops plus Pruning Residue.

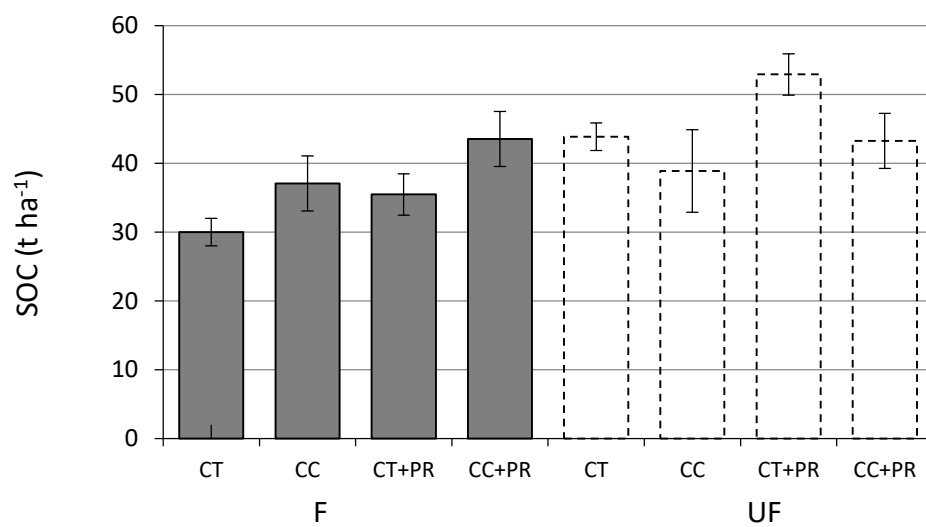


Figure S1. SOC at the end of the trial (2011) measured at 0-40 cm depth. F= fertilization with Urea (200 kg ha⁻¹); UF= unfertilized. Soil Management: CT= Conventional Tillage; CC= Cover Crops; CT+PR= Conventional Tillage plus Pruning Residue; CC+PR= Cover Crops plus Pruning Residue. Vertical bars show \pm standard deviation values.