Supplementary tables

Table 1S. ANOVA factors and their significance (P values) for cover crop biomass of Rovasenda and Livorno Ferraris in 2017 and 2018. The analyses refer to values reported in Table 1 of the manuscript.

Cover crop biomass	**Rovasenda**	**Livorno Ferraris**
Anova Factors	*P value*	
Cover crop	0.498	0.152
Year	0.216	0.287
Year*Cover crop	<0.001	0.126
Cover crop 2017	0.591	0.075
Cover crop 2018	<0.001	<0.001

Table 2 S. ANOVA factors and their significance (P values) for the effect of the cover crops and the control on weed density at Rovasenda and Livorno Ferraris in 2017 and 2018. The analyses refer to values reported in Table 2 of the manuscript.

	Rovasenda			**Livorno Ferraris**		
	Weed density before termination	**Weed density June**	**Weed density July**	**Weed density before termination**	**Weed density June**	**Weed density July**
Anova Factors			*P value*			
Cover crop	0.027	0.359	0.349	0.607	0.355	0.424
Zone (cover crop)	0.094	0.002	0.426	0.160	0.227	0.373
Year	0.706	0.183	0.517	0.529	0.254	0.212
Year*Cover crop	0.296	<0.001	<0.001	0.019	<0.001	<0.001
Cover crop 2017	<0.001	<0.001	<0.001	0.241	<0.001	<0.001
Cover crop 2018	0.001	<0.001	<0.001	0.006	<0.001	0.181

Table 3S. ANOVA factors and their significance (P values) for the effect of the cover crops and the termination technique on weed density at Rovasenda and Livorno Ferraris in 2017 and 2018. The analyses refer to values reported in Table 3 of the manuscript.

	Rovasenda		**Livorno Ferraris**	
	Weed density June	**Weed density July**	**Weed density June**	**Weed density July**
Anova Factors	*P value*			
Cover crop	0.452	0.526	0.553	0.391
Termination (cover crop)	0.562	0.050	0.197	0.007
Zone(termination(cover crop))	0.324	0.045	0.960	0.179
Year	0.256	0.767	0.531	0.174
Year*Cover crop	0.034	<0.001	0.138	<0.001
Cover crop 2017	0.316	0.728	0.127	<0.001
Cover crop 2018	<0.001	<0.001	0.534	0.080
Termination within Italian ryegrass 2017	0.242	0.990	0.529	0.047
Termination within hairy vetch 2017	0.330	0.610	0.189	0.752
Termination within mix 2017	0.629	0.011	0.236	0.071
Termination within Italian ryegrass 2018	0.002	0.105	0.007	0.318
Termination within hairy vetch 2018	0.672	0.291	0.958	0.680
Termination within mix 2018	0.361	0.304	0.884	0.885

Table 4S. ANOVA factors and their significance (P values) for the effect of the cover crops and the control on rice yield and harvest index at Rovasenda and Livorno Ferraris in 2017 and 2018. The analyses refer to values reported in Table 4 of the manuscript.

	Rovasenda		**Livorno Ferraris**	
	Rice yield ($t\ ha^{-1}$)	**Harvest index**	**Rice yield** ($t\ ha^{-1}$)	**Harvest index**
Anova Factors	*P value*			
Cover crop	0.008	0.132	0.832	0.042
Zone (cover crop)	0.117	0.140	0.170	0.150
Year	0.002	0.002	0.097	<0.001
Year*Cover crop	0.588	0.013	<0.001	0.814
Cover crop 2017	<0.001	<0.001	<0.001	0.112
Cover crop 2018	<0.001	0.036	0.015	0.213

Table 5S. ANOVA factors and their significance (P values) for the effect of the cover crops and the termination technique on rice yield and harvest index at Rovasenda and Livorno Ferraris in 2017 and 2018. The analyses refer to values reported in Table 5 of the manuscript.

	Rovasenda		**Livorno Ferraris**	
	Rice yield	**Harvest index**	**Rice yield**	**Harvest index**
Anova Factors	*P value*			
Cover crop	0.139	0.018	0.707	0.104
Termination (cover crop)	0.030	0.020	0.080	0.555
Year	0.013	0.894	0.083	0.003
Year*Cover crop	0.048	<0.001	<0.001	0.617
Cover crop 2017	0.395	0.003	<0.001	0.082
Cover crop 2018	0.023	0.080	0.364	0.149
Termination within Italian ryegrass 2017	0.790	0.043	0.608	0.405
Termination within hairy vetch 2017	0.102	0.584	0.672	0.512
Termination within mix 2017	0.951	0.111	0.298	0.728
Termination within Italian ryegrass 2018	0.873	0.052	0.110	0.230
Termination within hairy vetch 2018	0.127	0.835	0.004	0.248
Termination within mix 2018	0.019	0.021	0.112	0.225