

Can Flowering Greencover Crops Promote Biological Control in German Vineyards?

Christoph Hoffmann ^{1,*}, Janine Köckerling ¹, Sandra Biancu ¹, Thomas Gramm ¹,
Gertraud Michl ¹ and Martin H. Entling ²

Supplementary Materials:

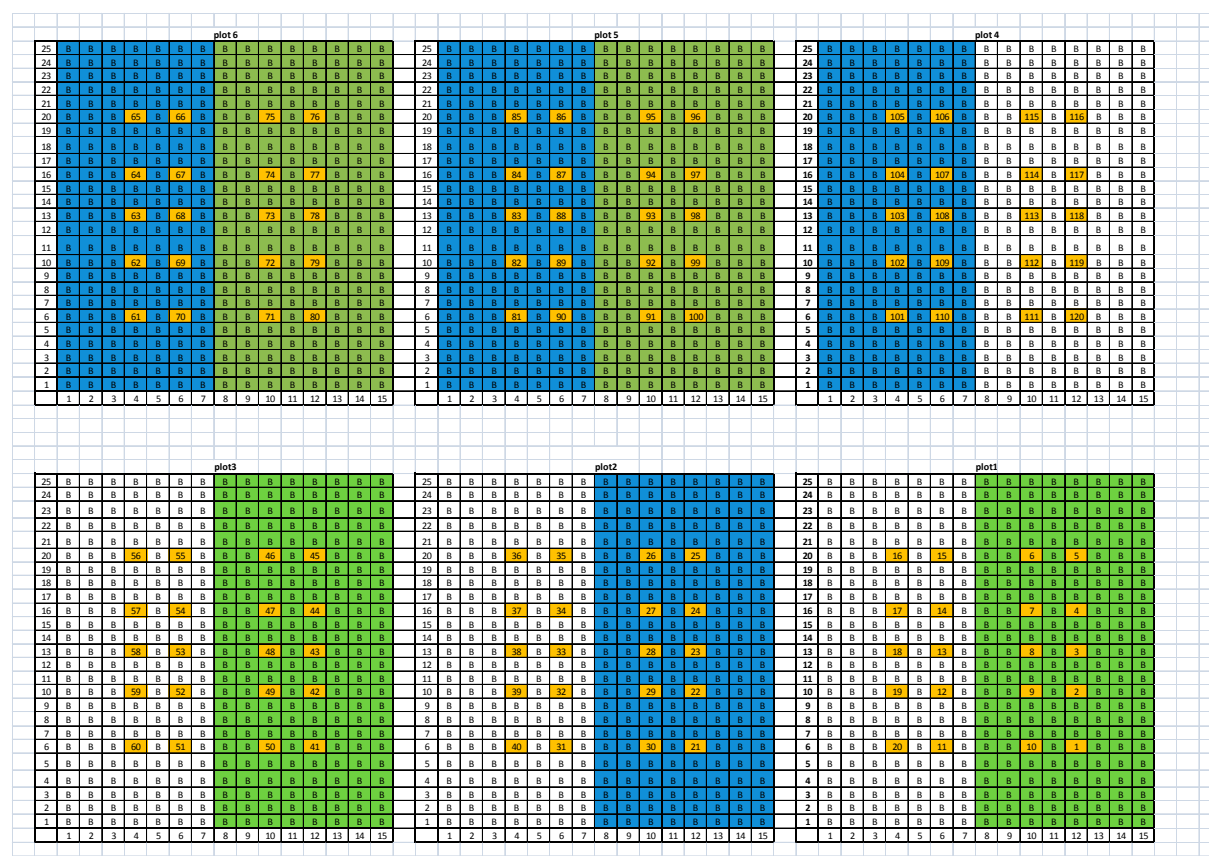


Figure S1. Sampling Plan within greencover trial in Siebeldingen. White: Spontaneously growing vegetation; Blue: 1x -; Green: 2x sowing of *Phacelia* & *Fagopyrum* The yellow rectangles are the positions where the cages and egg stripes were exposed weekly between 07.06. -15.10.2013 and between 26.03.-16.09.2014.

Table S1. Active ingredients of the fungicides applied in 2013 and 2014.

2013	2014
ametoctradin; boscalid; cyprodinil; dimethomorph; fludioxonil; folpet; kresoxim-methyl; metiram; metrafenone; myclobutanil; sulphur	ametoctradin; cyflufenamid; difenoconazole; dimethomorph; dithianon; fluopyram; folpet; metiram; metrafenone; myclobutanil; proquinazid; sulphur; tebuconazole

Table S2. Species composition of adult predatory mites in 2014 (Randomly sampled from the total catch).

Month 2014	Phytoseiidae			Tydeidae
	<i>Typhlodromus pyri</i>	<i>Paraseiulus soleiger</i>	<i>Euseiulus finlandicus</i>	<i>Tydeus goetzi</i>
June	123	8	0	29
July	119	1	0	23
August	159	3	0	20
September	178	2	2	33
October	158	6	3	57
Sum	737	20	5	162

Table S3: Diversity of the leaf mesofauna in relation to the type of greencover in 2014. No major changes in the leaf mesofauna appear between the control and the different sowings of greencover crops *Fagopyrum esculentum* and *Phacelia tanacetifolia*.

Month		<i>Calepitrimerus vitis</i>				<i>Colomerus vitis</i>				<i>Phytoseiidae</i>				<i>Tydeidae</i>				<i>Thysanoptera</i>				<i>Empoasca vitis</i>				<i>P. corni</i>				<i>Collembola</i>			
Treatment																																	
June																																	
2 drillings	Σ	98	43	2683	294	27	24	9	0																								
1 drilling	Σ	119	35	2612	1041	38	30	12	1																								
spontaneously grown veg.	Σ	192	80	2387	1417	54	30	34	5																								
July																																	
2 drillings	Σ	37	14	1189	112	4	46	4	6																								
1 drilling	Σ	28	7	1304	164	7	38	6	4																								
spontaneously grown veg.	Σ	31	9	1202	166	3	43	5	5																								
August																																	
2 drillings	Σ	8	6	1131	68	1	9	3	2																								
1 drilling	Σ	14	5	1120	101	2	7	3	2																								
spontaneously grown veg.	Σ	19	5	993	109	3	19	3	3																								
September																																	
2 drillings	Σ	11	9	1242	218	1	6	0	0																								
1 drilling	Σ	6	2	1181	252	2	7	1	2																								
spontaneously grown veg.	Σ	9	5	965	342	2	3	1	2																								
October																																	
2 drillings	Σ	1	0	556	760	1	0	0	0																								
1 drilling	Σ	1	0	554	892	3	0	0	4																								
spontaneously grown veg.	Σ	1	1	417	700	7	0	1	0																								

