

Table S1. Total number of arthropods captured by the beating method along 2009-2010 in almond trees sprayed with kaolin (Ka) or potassium soap with thyme essential oil (PSTEO) and in the untreated control (C).

Functional group	2009						2010					
	Ka		PSTEO		C		Ka		PSTEO		C	
	N	%	N	%	N	%	N	%	N	%	N	%
Phytophagous	4260	88.4	4990	90.0	4570	87.5	2581	53.8	2543	56.6	3019	58.8
Predators	225	4.7	207	3.7	261	5.0	172	3.6	180	4.0	161	3.1
Parasitoids	95	2.0	104	1.9	107	2.0	29	0.6	45	1.0	45	0.9
Other arthropods	238	4.9	243	4.4	283	5.4	2016	42.0	1724	38.4	1910	37.2

Table S2. Total numbers of predatory arthropods captured by the beating method along 2009-2010 in almond trees sprayed with kaolin (Ka) or potassium soap with thyme essential oil (PSTEO) and in the untreated control (C).

Taxa	2009						2010					
	Ka		PSTEO		C		Ka		PSTEO		C	
	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%
Araneae	94	41.78	64	30.92	79	30.27	90	52.33	75	41.67	82	50.93
Araneidae	1	0.44	0	0.00	2	0.77	10	5.81	9	5.00	11	6.83
Theridiidae	13	5.78	6	2.90	18	6.90	15	8.72	9	5.00	9	5.59
Salticidae	30	13.33	18	8.70	28	10.73	5	2.91	6	3.33	10	6.21
Thomisidae	4	1.78	3	1.45	3	1.15	24	13.95	15	8.33	20	11.80
Philodromidae	16	7.11	11	5.31	11	4.21	21	12.21	21	11.67	19	12.42
Oxyopidae	5	2.22	3	1.45	2	0.77	10	5.81	5	2.78	6	3.73
Liocranidae	6	2.67	6	2.90	6	2.30	0	0.00	2	1.11	0	0.00
Gnaphosidae	0	0.00	1	0.48	1	0.38	3	1.74	6	3.33	3	1.86
Sparassidae	0	0.00	0	0.00	0	0.00	1	0.58	0	0.00	0	0.00
Araneae ND ^[a]	19	8.44	16	7.73	8	3.07	1	0.58	2	1.11	4	2.48
Acari	22	9.78	29	14.01	42	16.09	26	15.12	23	12.78	16	9.94
Erythraeidae	0	0.00	0	0.00	0	0.00	19	11.05	18	10.00	14	8.70
Phytoseiidae	19	8.44	18	8.70	28	10.73	4	2.33	2	1.11	1	0.62
Raphignatidae	2	0.89	5	2.42	10	3.83	0	0.00	0	0.00	0	0.00
Caligonellidae	0	0.00	5	2.42	1	0.38	0	0.00	0	0.00	0	0.00
Anystidae	1	0.44	1	0.48	0	0.00	3	1.74	2	1.11	1	0.62
Caeculidae	0	0.00	0	0.00	2	0.77	0	0.00	0	0.00	0	0.00
Bdellidae	0	0.00	0	0.00	1	0.38	0	0.00	1	0.56	0	0.00
Thysanoptera	13	5.78	6	2.90	10	3.83	10	5.81	15	8.33	18	11.18
Aeolothripidae	13	5.78	6	2.90	10	3.83	10	5.81	15	8.33	18	11.18
Hemiptera	39	17.33	44	21.26	49	18.77	6	3.49	13	7.22	8	4.97
Anthocoridae	32	14.22	37	17.87	41	15.71	5	2.91	13	7.22	6	3.73
Miridae	7	3.11	7	3.38	8	3.07	1	0.58	0	0.00	2	1.24
Dermaptera	8	3.56	6	2.90	7	2.68	0	0.00	2	1.11	0	0.00
Forficulidae	8	3.56	6	2.90	7	2.68	0	0.00	2	1.11	0	0.00
Dictyoptera	0	0.00	0	0.00	1	0.38	0	0.00	0	0.00	1	0.62
Mantidae	0	0.00	0	0.00	1	0.38	0	0.00	0	0.00	1	0.62
Neuroptera	44	19.56	37	17.87	50	19.16	25	14.53	18	10.00	19	11.80
Chrysopidae	42	18.67	35	16.91	46	17.62	24	13.95	18	10.00	18	11.18
Coniopterygidae	2	0.89	2	0.97	4	1.53	1	0.58	0	0.00	1	0.62
Coleoptera	4	1.78	19	9.18	19	7.28	9	5.23	23	12.78	13	8.07
Coccinellidae	3	1.33	16	7.73	17	6.51	8	4.65	18	10.00	7	4.35
Staphylinidae	1	0.44	2	0.97	0	0.00	0	0.00	0	0.00	0	0.00
Malachiidae	0	0.00	1	0.48	0	0.00	1	0.58	5	2.78	6	3.73
Other Coleoptera	0	0.00	0	0.00	2	0.77	0	0.00	0	0.00	0	0.00
Diptera	1	0.44	2	0.97	4	1.53	6	3.49	11	6.11	4	2.47
Empididae	0	0.00	2	0.97	2	0.77	6	3.49	8	4.44	3	1.86
Syrphidae	0	0.00	0	0.00	1	0.38	0	0.00	2	1.11	1	0.62
Scathophagidae	0	0.00	0	0.00	0	0.00	0	0.00	1	0.56	0	0.00
Therevidae	1	0.44	0	0.00	1	0.38	0	0.00	0	0.00	0	0.00
Total	225	100.0	207	100.0	261	100.0	172	100.0	180	100.0	161	100.0

^[a]ND refers to specimens that could not be determined.

Table S3. Total numbers of parasitoid arthropods captured by the beating method along 2009-2010 in almond trees sprayed with kaolin (Ka) or potassium soap with thyme essential oil (PSTEO) and in the untreated control (C).

Taxa	2009						2010					
	Ka		PSTEO		C		Ka		PSTEO		C	
	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%
Hymenoptera	95	100.0	104	100.00	107	100.0	29	100.0	45	100.0	45	100.0
Chalcidoidea	35	36.84	30	28.85	31	28.97	15	51.72	13	28.89	16	35.56
Eulophidae	18	18.95	16	15.38	17	15.89	6	20.69	6	13.33	6	13.33
Dryinidae	13	13.68	5	4.81	5	4.67	4	13.79	0	0.00	4	8.89
Eurytomidae	0	0.00	0	0.00	2	1.87	0	0.00	1	2.22	0	0.00
Pteromalidae	1	1.05	5	4.81	2	1.87	0	0.00	1	2.22	1	2.22
Mymaridae	1	1.05	2	1.92	2	1.87	3	10.34	3	6.67	1	2.22
Encyrtidae	2	2.11	2	1.92	1	0.93	2	6.90	2	4.44	4	8.89
Signiphoridae	0	0.00	0	0.00	2	1.87	0	0.00	0	0.00	0	0.00
Platygasteroidea	12	12.63	15	14.42	17	15.89	6	20.69	5	11.11	8	17.78
Platygastridae	0	0.00	0	0.00	0	0.00	3	10.34	0	0.00	1	2.22
Scelionidae	12	12.63	15	14.42	17	15.89	3	10.34	5	11.11	7	15.56
Ceraphronoidea	0	0.00	0	0.00	0	0.00	0	0.00	2	4.44	2	4.44
Ceraphronidae	0	0.00	0	0.00	0	0.00	0	0.00	1	2.22	1	2.22
Megaspilidae	0	0.00	0	0.00	0	0.00	0	0.00	1	2.22	1	2.22
Cynipoidea	0	0.00	0	0.00	0	0.00	1	3.45	0	0.00	2	4.44
Figitidae	0	0.00	0	0.00	0	0.00	1	3.45	0	0.00	2	4.44
Chrysidoidea	1	1.05	1	0.96	0	0.00	0	0.00	0	0.00	1	2.22
Chrysididae	1	1.05	1	0.96	0	0.00	0	0.00	0	0.00	1	2.22
Ichneumonoidea	2	2.11	4	3.85	0	0.00	0	0.00	1	2.22	0	0.00
Ichneumonidae	0	0.00	0	0.00	0	0.00	0	0.00	1	2.22	0	0.00
Braconidae	2	2.11	4	3.85	0	0.00	0	0.00	0	0.00	0	0.00
Vespoidea	0	0.00	2	1.92	0	0.00	0	0.00	0	0.00	0	0.00
Tiphiidae	0	0.00	2	1.92	0	0.00	0	0.00	0	0.00	0	0.00
Hymenoptera ND ^[a]	1	1.05	2	1.92	1	0.93	0	0.00	0	0.00	0	0.00
Inmature stages	44	46.32	50	48.08	58	54.21	7	24.14	24	53.33	16	35.56
Total	95	100.00	104	100.00	107	100.00	29	100.00	45	100.00	45	100.00

^[a] ND refers to specimens that could not be determined

Table S4. Total numbers of other arthropods^[a] captured by the beating method along 2009-2010 in almond trees sprayed with kaolin (Ka) or potassium soap with thyme essential oil (PSTEO) and in the untreated control (C).

Taxa	2009						2010					
	Ka		PSTEO		C		Ka		PSTEO		C	
	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%
Acari	2	0.84	4	1.65	5	1.77	1	0.05	0	0.00	1	0.05
Tarsonemidae	0	0.00	1	0.41	2	0.71	0	0.00	0	0.00	0	0.00
Tydeidae	0	0.00	0	0.00	1	0.35	1	0.05	0	0.00	1	0.05
Acari ND ^[b]	2	0.84	3	1.23	2	0.71	0	0.00	0	0.00	0	0.00
Collembola	1	0.42	0	0.00	2	0.71	1	0.05	0	0.00	1	0.05
Orthoptera	4	1.68	1	0.41	0	0.00	2	0.10	1	0.06	0	0.00
Tettigoniidae	2	0.84	1	0.41	0	0.00	2	0.10	0	0.00	0	0.00
Oecanthidae	2	0.84	0	0.00	0	0.00	0	0.00	1	0.06	0	0.00
Dictyoptera	0	0.00	0	0.00	1	0.35	2	0.10	0	0.00	2	0.10
Blattidae	0	0.00	0	0.00	1	0.35	2	0.10	0	0.00	2	0.10
Psocoptera	25	10.50	20	8.23	17	6.01	29	1.44	27	1.57	38	1.99
Thysanoptera	70	29.41	78	32.10	78	27.56	1840	91.27	1373	79.64	1557	81.52
Hemiptera	28	11.76	21	8.64	40	14.13	17	0.84	17	0.99	35	1.83
Coccidae	18	7.56	13	5.35	19	6.71	2	0.10	1	0.06	5	0.26
Diaspididae	3	1.26	5	2.06	11	3.89	0	0.00	0	0.00	0	0.00
Psyllidae	1	0.42	0	0.00	0	0.00	1	0.05	0	0.00	2	0.10
Issidae	0	0.00	1	0.41	0	0.00	0	0.00	0	0.00	13	0.68
Tetigometridae	0	0.00	0	0.00	0	0.00	2	0.10	1	0.06	1	0.05
Cixiidae	0	0.00	0	0.00	0	0.00	0	0.00	1	0.06	0	0.00
Cicadellidae	1	0.42	1	0.41	6	2.12	8	0.40	12	0.70	8	0.42
Piesmatidae	0	0.00	0	0.00	1	0.35	0	0.00	0	0.00	0	0.00
Tingidae	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	0.05
Cydniidae	0	0.00	0	0.00	0	0.00	1	0.05	0	0.00	0	0.00
Pentatomidae	1	0.42	0	0.00	1	0.35	1	0.05	2	0.12	0	0.00
Lygaeidae	1	0.42	0	0.00	0	0.00	1	0.05	0	0.00	0	0.00
Berytidae	0	0.00	0	0.00	0	0.00	1	0.05	0	0.00	0	0.00
Rophalidae	1	0.42	0	0.00	0	0.00	0	0.00	0	0.00	1	0.05
Coreidae	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	0.05
Hemiptera ND ^[b]	2	0.84	1	0.41	2	0.71	0	0.00	0	0.00	3	0.16
Diptera	28	11.76	29	11.93	25	8.83	18	0.89	10	0.58	23	1.20
Chloropidae	0	0.00	1	0.41	1	0.35	1	0.05	2	0.12	1	0.05
Drosophilidae	2	0.84	1	0.41	0	0.00	7	0.35	1	0.06	4	0.21
Chironomidae	5	2.10	5	2.06	7	2.47	1	0.05	0	0.00	0	0.00
Sciaridae	9	3.78	10	4.12	6	2.12	3	0.15	3	0.17	5	0.26
Cecidomyiidae	1	0.42	2	0.82	1	0.35	3	0.15	2	0.12	8	0.42
Ceratopogonidae	8	3.36	4	1.65	2	0.71	1	0.05	1	0.06	2	0.10
Agromyzidae	0	0.00	0	0.00	1	0.35	0	0.00	0	0.00	0	0.00
Anthomyiidae	0	0.00	0	0.00	1	0.35	1	0.05	0	0.00	1	0.05
Milichiidae	2	0.84	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Scatopsidae	0	0.00	1	0.41	1	0.35	0	0.00	0	0.00	0	0.00
Phoridae	0	0.00	0	0.00	0	0.00	1	0.05	0	0.00	0	0.00
Tephritidae	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	0.05
Diptera ND ^[b]	1	0.42	5	2.06	5	1.77	0	0.00	1	0.06	1	0.05

^[a] Specimens different from pests and natural enemies or those that could not be allocated to a specific feeding guild.

^[b] ND refers to specimens that could not be determined.

Table S4. (Cont.)

Taxa	2009						2010					
	Ka		PSTEO		C		Ka		PSTEO		C	
	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%
Coleoptera	53	22.27	56	23.05	65	22.97	86	4.27	250	14.50	187	9.79
Anthicidae	2	0.84	3	1.23	1	0.35	1	0.05	13	0.75	5	0.26
Lathrididae	23	9.66	22	9.05	15	5.30	6	0.30	4	0.23	2	0.10
Chrysomelidae	0	0.00	2	0.82	2	0.71	1	0.05	1	0.06	1	0.05
Phalacridae	1	0.42	2	0.82	1	0.35	0	0.00	9	0.52	3	0.16
Curculionidae	1	0.42	0	0.00	1	0.35	38	1.88	68	3.94	65	3.40
Apionidae	0	0.00	0	0.00	1	0.35	0	0.00	0	0.00	0	0.00
Nitidulidae	1	0.42	1	0.41	0	0.00	0	0.00	0	0.00	0	0.00
Melandryidae	18	7.56	26	10.70	35	12.37	33	1.64	149	8.64	105	5.50
Elateridae	1	0.42	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Tenebrionidae	1	0.42	0	0.00	1	0.35	0	0.00	0	0.00	1	0.05
Bruchidae	2	0.84	0	0.00	5	1.77	0	0.00	4	0.23	0	0.00
Scarabaeidae	0	0.00	0	0.00	1	0.35	0	0.00	0	0.00	0	0.00
Anobiidae	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	0.05
Corylophidae	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	2	0.10
Coleoptera ND ^[b]	3	1.26	0	0.00	2	0.71	7	0.35	2	0.12	2	0.10
Lepidoptera	3	1.26	6	2.47	4	1.41	10	0.50	10	0.58	10	0.52
Praydidae	0	0.00	0	0.00	0	0.00	1	0.05	0	0.00	0	0.00
Lepidoptera ND ^[b]	3	1.26	6	2.47	4	1.41	9	0.45	10	0.58	10	0.52
Hymenoptera	6	2.52	14	5.76	14	4.95	5	0.25	9	0.52	49	2.57
Formicidae	5	2.10	13	5.35	14	4.95	5	0.25	9	0.52	49	2.57
Cynipidae	1	0.42	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Apidae	0	0.00	1	0.41	0	0.00	0	0.00	0	0.00	0	0.00
Arthropoda ND ^[b]	18	7.60	14	5.76	32	11.31	5	0.25	27	1.57	7	0.37
Total	238	100.0	243	100.0	283	100.0	2016	100.0	1724	100.0	1910	100.0

^[a] Specimens different from pests and natural enemies or those that could not be allocated to a specific feeding guild.

^[b] ND refers to specimens that could not be determined.