

## Supplementary Materials

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Table S8. Overview of species/families (or a higher taxonomic level\*) that were identified in the limb beating samples in the pear trees and in the mixed hedgerow, and their considered role (pest, beneficial or indifferent).

**Table S1.** Products used and timing of interventions in the study pear orchard over the different years: (A) 2016 –(B) 2017 –(C) 2018.

(A)

Year	Purpose	Formulated Product (Active Ingredient)	Dose Rate (kg or l/ha LWA*) (l/ha for Herbicides)	Date
2016	Insect control	Sunspray 7E (paraffinic oil)	6.0	22/03/2016
		Decis 2.5 EC (deltamethrin)	0.4	13/03/2016
		Calypso 480 SC (thiacloprid)	0.25	13/03/2016
		Vertimec 18 EC (left side) (abamectin)	0.33	9/05/2016
		Vertimec 18 EC (right side) (abamectin)	0.33	26/05/2016
		Movento 100 SC (left side) (spirotetramat)	1.5	27/05/2016
	Fungal/bacterial diseases control	Mastana 500 SC (mancozeb)	2.66	13/04/2016
		Chorus 50 WG (cyprodinil)	0.3	28/04/2016
		Captan 80 WG (captan)	1.2	28/04/2016
		Captan 80 WG (captan)	1.2	2/05/2016
		Pomarsol 80 WG (thiram)	1.46	9/05/2016
		Captan 80 WG (captan)	1.2	26/05/2016
		Delan 70 WG (dithianon)	0.5	2/06/2016
		Geyser 250 EC (difenconazol)	0.1	2/06/2016
		Captan 80 WG (captan)	1.2	7-9/06/2016
		Delan 70 WG (dithianon)	0.5	14/06/2016
		Pomarsol 80 WG (thiram)	1.46	2/08/2016
		Bellis 38 WG (boscalid + pyroclostrobin)	0.5	10/08/2016
		Bellis 38 WG (boscalid + pyroclostrobin)	0.5	19/08/2016
		Geoxe 50 WG (fludioxonil)	0.33	5/09/2016
	Weed control	Lentipur 500 SC (chloortuloron)	1.0	20/06/2016
		Stomp Aqua 455 CS (pendimethalin)	1.0	20/06/2016
		Limurex 50 SC (linuron)	1.0	20/06/2016
	Growth regulation	Promalin 1.9 SL (gibberellic acid 4 and 7 (GA4+7) + 6-benzyladenine (6-BA))	0.33	24/04/2016
		Promalin 1.9 SL (gibberellic acid 4 and 7 (GA4+7) + 6-benzyladenine (6-BA))	0.2	28/04/2016
		Globaryll 100 SL (6-benzyladenine)	1.33	16/05/2016
		Fixor 100 SL ( $\alpha$ -naphthyl acetic acid)	0.66	31/08/2016

\* **Leaf Wall Area (LWA).** Since pear trees are a vertical crop, the product dose rate and water volume are expressed per ha LWA, as recommended by EPPO (guideline PP1/239(3) - Dose expression for plant protection products. 2020). The LWA is calculated by the number of trees x planting distance within the row (d) x treated tree height x 2 sides, and corresponded to 15,500 m<sup>2</sup>/ha soil surface in the trial orchard.

(B)

Year	Purpose	Formulated Product (Active Ingredient)	Dose Rate (kg or l/ha LWA*) (l/ha for Herbicides)	Date
2017	Insect control	Sunspray 7E (paraffinic oil)	6.0	10/03/2017
		Sunspray 7E (paraffinic oil)	6.0	24/03/2017
		Decis 2.5 EC (deltamethrin)	0.4	2/04/2017
		Calypso 480 SC (thiacloprid)	0.25	2/04/2017
		Isomate CLR ((E,E)-8,10-Dodecadien-1-ol, 1-Dodecanol, 1-Tetradecanol, (Z)-11-Tetradecen-1-yl acetate, (Z)-9-Tetradecen-1-yl acetate, (Z)-8-Tetradecen-1-yl acetate, (Z)-8-Tetradecen-1-ol)	800 dispensers/ha	1/05/2017
		Movento 100 SC (spirotetramat)	1.5	16/05/2017
		Movento 100 SC (spirotetramat)	1.5	20/05/2017
		Decis 2.5 EC (deltamethrin)	0.4	26/09/2017
		Calypso 480 SC (thiacloprid)	0.25	26/09/2017
	Fungal/bacterial diseases control	Syllit 400 SC (dodine)	0.8	24/03/2017
		Switch 62.5 WG (cyprodinil + fludioxonil)	0.5	4/04/2017
		Delan 70 WG (dithianon)	0.33	20/04/2017
		Delan 70 WG (dithianon)	0.33	16/05/2017
		Captan 80 WG (captan)	1.2	26/05/2017
		Geyser 250 EC (difenconazol)	0.1	6/06/2017
		Delan 70 WG (dithianon)	0.30	15/07/2017
		Captan 80 WG (captan)	1.2	29/07/2017
		Captan 80 WG (captan)	1.2	14/08/2017
		Bellis 38 WG (boscalid + pyroclostrobin)	0.5	28/08/2017
		Bellis 38 WG (boscalid + pyroclostrobin)	0.5	8/09/2017
		Switch 62.5 WG (cyprodinil + fludioxonil)	0.5	13/09/2017
	Weed control	Lentipur 500 SC (chloortuloron)	1.0	6/05/2017
		Stomp Aqua 455 CS (pendimethalin)	1.0	6/05/2017
		Limurex 50 SC (linuron)	1.0	6/05/2017

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(C)

Year	Purpose	Formulated Product (Active Ingredient)	Dose Rate (kg or l/ha LWA*) (l/ha for Herbicides)	Date
2018	Insect control	Sunspray 7E (paraffinic oil)	6.0	28/03/2018
		Decis 2.5 EC (deltamethrin)	0.4	10/04/2018
		Calypso 480 SC (thiacloprid)	0.25	10/04/2018
		Isomate CLR ((E,E)-8,10-Dodecadien-1-ol, 1-Dodecanol, 1-Tetradecanol, (Z)-11-Tetradecen-1-yl acetate, (Z)-9-Tetradecen-1-yl acetate, (Z)-8-Tetradecen-1-yl acetate, (Z)-8-Tetradecen-1-ol)	800 dispensers/ha	28/04/2018
		Movento 100 SC (spirotetramat)	1.5	25/05/2018
		Vertimec 18 EC (abamectin)	0.33	23/06/2018
	Fungal/bacterial diseases control	Syllit 400 SC (dodine)	0.8	4/04/2018
		Captan 80 WG (captan)	1.2	23/04/2018
		Captan 80 WG (captan)	1.2	11/05/2018
		Geyser 250 EC (difenconazol)	0.1	18/05/2018
		Chorus 50 WG (cyprodinil)	0.3	26/05/2018
		Pomarsol 80 WG (thiram)	1.66	5/08/2018
		Switch 62.5 WG (cyprodinil + fludioxonil)	0.5	20/08/2018
		Geoxe 50 WG (fludioxonil)	0.266	28/08/2018
	Weed control	Kyleo 240 SL (glyphosate)	2.5	4/04/2018
	Growth regulation	Globaryll 100 SL (6-benzyladenine)	1.33	11/05/2018
		Fixor 100 SL ( $\alpha$ -naphthyl acetic acid)	0.66	18/08/2018
		Fixor 100 SL ( $\alpha$ -naphthyl acetic acid)	0.66	26/08/2018

\* **Leaf Wall Area (LWA).** Since pear trees are a vertical crop, the product dose rate and water volume are expressed per ha LWA, as recommended by EPPO (guideline PP1/239(3) - Dose expression for plant protection products. 2020). The LWA is calculated by the number of trees x planting distance within the row (d) x treated tree height x 2 sides, and corresponded to 15,500 m<sup>2</sup>/ha soil surface in the trial orchard.

**Table S2.** Composition of the mixed hedgerow at the border of the study pear orchard.

Woody Plant Species	Number of Woody Plants
<i>Viburnum lantana</i> (wayfarer)	17
<i>Salix caprea</i> (goat willow)	15
<i>Viburnum opulus</i> (guelder rose)	26
<i>Ligustrum vulgare</i> (common privet)	24
<i>Corylus avellana</i> (common hazel)	22
<i>Frangula alnus</i> (breaking buckthorn)	13
<i>Cornus sanguinea</i> (bloody dogwood)	7
<i>Fraxinus excelsior</i> (common ash)	2
<i>Cornus mas</i> (European cornel)	15
<i>Sambucus nigra</i> (European elder)	4
<i>Alnus glutinosa</i> (common alder)	7
<i>Fagus sylvatica</i> (common beech)	3
<i>Acer campestre</i> (field maple)	14
<i>Cytisus scoparius</i> (common broom)	5
<i>Carpinus betulus</i> (common hornbeam)	1

**Table S3.** Overview of insects observed visiting pear flowers during pear flowering in 2016 (A), and overview of the flower-visiting insects monitored during the transect walks after flowering in 2016–2018 (B).

(A)

Pollinator	Percent % (of Total Number of Flower-Visiting Insects Observed)
<i>Apis mellifera</i>	39.8
<i>Bombus</i> spp.	2.7
<i>Osmia cornuta</i>	37.3
other solitary bees	20.2

(B)

Insect Observed	Number Observed
<i>Andrena bimaculata</i>	2
<i>Andrena carantonica</i>	2
<i>Andrena cineraria</i>	1
<i>Andrena fulva</i>	1
<i>Andrena fuscipes</i>	2
<i>Andrena haemorrhoa</i>	7
<i>Andrena vaga</i>	1
<i>Anthophora plumipes</i>	7
<i>Apis mellifera</i>	84
<i>Bombus hypnorum</i>	5
<i>Bombus lapidarius</i>	26
<i>Bombus pascuorum</i>	39
<i>Bombus pratorum</i>	20
<i>Bombus terrestris</i>	108
<i>Chalcosyrphus eunotus</i>	1
<i>Chrysis</i> spp.	1
<i>Criorhina ranunculi</i>	1
<i>Doros profuges</i>	1
<i>Epistrophe melanostoma</i>	2
<i>Episyrphus balteatus</i>	27

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<i>Eristalis arbustorum</i>	52
<i>Eristalis nemorum</i>	1
<i>Eristalis pertinax</i>	12
<i>Eristalis tenax</i>	10
<i>Eupeodes latifasciatus</i>	1
<i>Eupeodes luniger</i>	3
<i>Ferdinandea cuprea</i>	1
<i>Halictus rubicundus</i>	2
<i>Helophilus pendulus</i>	1
<i>Helophilus</i> spp.	6
<i>Lasioglossum malacharum</i>	1
<i>Lasioglossum</i> spp.	1
<i>Lucilia sericata</i>	1
<i>Maculinea</i> spp.	1
<i>Megachile centuncularis</i>	2
<i>Megasyrphus erraticus</i>	2
<i>Mesembrina meridiana</i>	1
<i>Myathropa florea</i>	3
<i>Nomada flava</i>	3
<i>Osmia cornuta</i>	19
<i>Pieris rapae</i>	3
<i>Scaeva pyrastris</i>	1
<i>Scaeva selenitica</i>	1
<i>Sphaerophoria batava</i>	6
<i>Sphaerophoria scripta</i>	4
<i>Syrphus ribesii</i>	8
<i>Tachina fera</i>	3
<i>Vanessa atalanta</i>	1
<i>Vanessa cardui</i>	1
<i>Vespa crabro</i>	1
<i>Vespula vulgaris</i>	242
<i>Volucella zonaria</i>	1

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**Table S4.** Overview of the plants visited for each functional group over the different years (after pear flowering): (A) 2016 –(B) 2017 –(C) 2018.**A:**

<i>Apis mellifera</i>	Visit (%)	<i>Bombus</i> spp.	Visit (%)	Solitary Bees	Visit (%)	Syrphid Flies	Visit (%)
<i>Chamaenerion angustifolium</i>	3	<i>Chamaenerion angustifolium</i>	5	<i>Cornus sanguinea</i>	50	<i>Achillea millefolium</i>	20
<i>Cornus sanguinea</i>	46	<i>Cornus sanguinea</i>	11	<i>Phacelia tanacetifolia</i>	50	<i>Anthriscus sylvestris</i>	33
<i>Geranium pyrenaicum</i>	11	<i>Cotoneaster</i> spp.	1			<i>Bellis perennis</i>	2
<i>Heracleum sphondylium</i>	6	<i>Cytisus scoparius</i>	6			<i>Cirsium arvense</i>	15
<i>Phacelia tanacetifolia</i>	29	<i>Geranium pyrenaicum</i>	6			<i>Daucus carota</i>	2
<i>Ranunculus repens</i>	3	<i>Lamium album</i>	17			<i>Heracleum sphondylium</i>	7
<i>Symphytum officinale</i>	3	<i>Malva sylvestris</i>	5			<i>Lotus corniculatus</i>	2
		<i>Papaver somniferum</i>	2			<i>Scorzoneroideis autumnalis</i>	4
		<i>Phacelia tanacetifolia</i>	18			<i>Solidago</i> spp.	13
		<i>Prunus padus</i>	1			<i>Sonchus</i> spp.	2
		<i>Prunus serotina</i>	2			<i>Symphytum officinale</i>	2
		<i>Ranunculus repens</i>	1				
		<i>Symphytum officinale</i>	4				
		<i>Taraxacum</i> agg.	1				
		<i>Trifolium pratense</i>	1				
		<i>Trifolium repens</i>	14				
		<i>Viburnum opulus</i>	1				
		<i>Vicia cracca</i>	2				

**B:**

<i>Apis mellifera</i>	Visit (%)	<i>Bombus</i> spp.	Visit (%)	Solitary Bees	Visit (%)	Syrphid Flies	Visit (%)
<i>Cirsium arvense</i>	17	<i>Bellis perennis</i>	1	<i>Bryonia dioica</i>	17	<i>Bellis perennis</i>	11
<i>Phacelia tanacetifolia</i>	17	<i>Centaurea jacea</i>	7	<i>Centaurea jacea</i>	17	<i>Centaurea jacea</i>	3
<i>Rhamnus frangula</i>	33	<i>Chamaenerion angustifolium</i>	7	<i>Chamaenerion angustifolium</i>	17	<i>Cirsium arvense</i>	16
<i>Silene latifolia</i>	17	<i>Cirsium arvense</i>	4	<i>Prunus padus</i>	17	<i>Daucus carota</i>	3
<i>Taraxacum</i> agg.	17	<i>Cytisus scoparius</i>	7	<i>Taraxacum</i> agg.	33	<i>Heracleum sphondylium</i>	13
		<i>Geranium pyrenaicum</i>	4			<i>Hypericum perforatum</i>	11
		<i>Hypericum perforatum</i>	1			<i>Phacelia tanacetifolia</i>	5
		<i>Lamium album</i>	6			<i>Taraxacum</i> agg.	39
		<i>Linaria vulgaris</i>	1				
		<i>Lotus corniculatus</i>	5				
		<i>Malva sylvestris</i>	16				
		<i>Phacelia tanacetifolia</i>	16				
		<i>Prunus padus</i>	1				
		<i>Ranunculus repens</i>	1				
		<i>Rhamnus frangula</i>	6				
		<i>Silene latifolia</i>	1				
		<i>Taraxacum</i> agg.	5				
		<i>Trifolium pratense</i>	5				
		<i>Trifolium repens</i>	5				
		<i>Viburnum opulus</i>	1				



C:

<i>Apis mellifera</i>	Visit (%)	<i>Bombus</i> spp.	Visit (%)	Solitary Bees	Visit (%)	Syrphid Flies	Visit (%)
<i>Cornus sanguinea</i>	17	<i>Convolvulus sepium</i>	12	<i>Cornus sanguinea</i>	33	<i>Bellis perennis</i>	2
<i>Galium aparine</i>	17	<i>Cornus sanguinea</i>	12	<i>Rubus</i> spp.	33	<i>Convolvulus arvensis</i>	2
<i>Heracleum sphondylium</i>	50	<i>Cytisus scoparius</i>	29	<i>Taraxacum</i> agg.	33	<i>Convolvulus sepium</i>	5
<i>Hypochoeris radicata</i>	17	<i>Epilobium hirsutum</i>	29			<i>Cornus sanguinea</i>	10
		<i>Hypericum perforatum</i>	6			<i>Heracleum sphondylium</i>	29
		<i>Hypochoeris radicata</i>	6			<i>Hypericum perforatum</i>	2
		<i>Taraxacum</i> agg.	6			<i>Lolium perenne</i>	2
						<i>Pyrus communis</i>	24
						<i>Rubus</i> spp.	5
						<i>Taraxacum</i> agg.	7
						<i>Urtica dioica</i>	10

**Table S5.** Results of linear regression models assessing the effect of pollination treatment (bagged vs open flowers) and year on pear fruit quality without outliers ( $n = 17$ ). Model statistics degrees of freedom (df),  $F$ -values and  $p$ -values are given.

Factor	df	$F$	$p$
Pollination treatment	1	100.2	< 0.001
Year	2	187.7	< 0.001
Pollination treatment:Year	2	8.1	< 0.001

**Table S6.** Medium price per size class for 'Conference' pears for the 2015-2016 season for quality class A3 (Belgische Fruitveiling BFV, 2016, personal communication).

Size Class	Price (€/kg)
45-50 mm	0.220
50-65 mm	0.329
55-65 mm	0.423
60-65 mm	0.470
65-70 mm	0.551
70-75 mm	0.611
75-80 mm	0.623

**Table S7.** Results of linear regression models assessing the effect of the distance to *Osmia* nesting boxes and year on pear fruit quality without outliers (n = 16). Model statistics degrees of freedom (df), *F*-values and *p*-values are given.

Factor	df	<i>F</i>	<i>p</i>
Distance	1	30.9	< 0.001
Year	2	98.7	< 0.001
Distance:Year	2	2.6	0.018

**Table S8.** Overview of species/families (or a higher taxonomic level\*) that were identified in the limb beating samples in the pear trees and in the mixed hedgerow, and their considered role (pest, beneficial or indifferent).

Species/Family or Higher Taxonomic Level	Order	Role
Acarina	Acarina	indifferent
<i>Anaspis</i> sp.	Coleoptera	indifferent
<i>Anthocoris nemoralis</i>	Hemiptera	beneficial
<i>Anthocoris nemorum</i>	Hemiptera	beneficial
Aphidoidea	Hemiptera	pest
<i>Aphis fabae</i>	Hemiptera	pest
<i>Aphis frangulae</i>	Hemiptera	indifferent
<i>Aphis lantanae</i>	Hemiptera	indifferent
Araneomorphae	Araneae	beneficial
<i>Araneus diadematus</i>	Araneae	beneficial
<i>Araneus</i> sp.	Araneae	beneficial
<i>Aulacorthum solani</i>	Hemiptera	indifferent
<i>Barypeithes araneiformis</i>	Coleoptera	pest
Bdellidae	Acarina	beneficial
<i>Bembibion</i> sp.	Coleoptera	beneficial
<i>Blepharidopterus angulatus</i>	Hemiptera	beneficial
<i>Bruchidius</i> sp.	Coleoptera	pest
<i>Cacopsylla pyri</i>	Hemiptera	pest
<i>Calvia quatuordecimguttata</i>	Coleoptera	beneficial
<i>Campylomma verbascii</i>	Hemiptera	pest
<i>Campyloneura virgula</i>	Hemiptera	beneficial
<i>Cantharis</i> sp.	Coleoptera	beneficial
<i>Cardiastethus fasciventris</i>	Hemiptera	beneficial
Cecidomyiidae	Diptera	pest
Chalcidoidea	Hymenoptera	beneficial
Chalcidoidea (hyperparasitoid)	Hymenoptera	pest
<i>Chironomus plumosus</i>	Diptera	indifferent
<i>Chloropidae</i> sp.	Diptera	indifferent
<i>Chrysoperia carnea</i>	Neuroptera	beneficial
Cicadellidae	Hemiptera	pest
Coccinellidae	Coleoptera	beneficial
Coleoptera	Coleoptera	indifferent
Collembola	Collembola	indifferent
Coreidae	Hemiptera	pest
Crambidae	Lepidoptera	indifferent
<i>Crossocerus exiguus</i>	Hymenoptera	indifferent
Curculionidae	Coleoptera	pest
Delphacidae	Hemiptera	pest
<i>Demetrias atricapillus</i>	Coleoptera	beneficial
<i>Deraeocoris lutescens</i>	Hemiptera	beneficial
<i>Deraeocoris ruber</i>	Hemiptera	beneficial
<i>Dicyphus</i> sp.	Hemiptera	beneficial
Diptera	Diptera	indifferent
<i>Drosophila suzukii</i> **	Diptera	indifferent

Drosophilidae	Diptera	indifferent
Elateridae	Coleoptera	pest
<i>Enoplognatha</i> sp.	Araneae	beneficial
<i>Euceraphis betulae</i>	Hemiptera	pest
<i>Eupoedes</i> sp.	Diptera	beneficial
Forficulidae	Dermaptera	beneficial
<i>Formica rufibarbis</i>	Hymenoptera	pest
Formicidae	Hymenoptera	pest
Gastropoda	Gastropoda	pest
<i>Gelis</i> sp.	Hymenoptera	pest
Geometridae	Lepidoptera	pest
<i>Gonocerus acuteangulatus</i>	Hemiptera	pest
Gracillariidae	Lepidoptera	pest
Halictidae	Hymenoptera	beneficial
<i>Harmonia axyridis</i>	Coleoptera	beneficial
Hemerobiidae	Neuroptera	beneficial
Heteroptera	Hemiptera	indifferent
<i>Heterotoma planicornis</i>	Hemiptera	beneficial
Ichneumonidae (parasitoid)	Hymenoptera	beneficial
Isopoda	Isopoda	indifferent
Laelapidae	Acarina	beneficial
<i>Lagria hirta</i>	Coleoptera	indifferent
<i>Lasius niger</i>	Hymenoptera	pest
Latridiidae sp.	Coleoptera	indifferent
Lepidoptera	Lepidoptera	pest
<i>Liocoris tripustulatus</i>	Hemiptera	indifferent
Lygaeidae	Hemiptera	indifferent
<i>Lygocoris pabulinus</i>	Hemiptera	pest
<i>Malacocoris chlorizans</i>	Hemiptera	beneficial
Microlepidoptera	Lepidoptera	pest
<i>Micromus variegatus</i>	Neuroptera	beneficial
Miridae	Hemiptera	pest
Nabidae sp.	Hemiptera	beneficial
Noctuidae	Lepidoptera	indifferent
<i>Notostira elongata</i>	Hemiptera	indifferent
<i>Opiliones</i> sp.	Araneae	beneficial
<i>Oribatida</i> sp.	Acarina	indifferent
<i>Orius</i> sp.	Hemiptera	beneficial
<i>Orthops kalmii</i>	Hemiptera	pest
<i>Otiorhynchus</i> sp.	Coleoptera	pest
<i>Otiorhynchus tenebricosus</i>	Coleoptera	pest
<i>Oulema melanopus</i>	Coleoptera	indifferent
<i>Oxybelus uniglumis</i>	Hymenoptera	indifferent
<i>Palomena prasina</i>	Hemiptera	pest
Panorpidae	Mecoptera	beneficial
Pentatomidea	Hemiptera	pest
<i>Phyllobius</i> sp.	Coleoptera	pest
<i>Piezodorus lituratus</i>	Hemiptera	indifferent
<i>Pilophorus perplexus</i>	Hemiptera	beneficial
<i>Protapion fulvipes</i>	Coleoptera	pest
<i>Protapion</i> sp.	Coleoptera	indifferent
Psocoptera	Psocoptera	indifferent
Psyllidae	Hemiptera	pest
<i>Psylliodes</i> sp.	Coleoptera	pest
<i>Psyllobora vigintiduopunctata</i>	Coleoptera	beneficial
<i>Psyllopsis fraxini</i>	Hemiptera	indifferent
Pterophoridae	Lepidoptera	indifferent

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<i>Selandria serva</i>	Hymenoptera	indifferent
<i>Sitona</i> sp.	Coleoptera	pest
<i>Sphaerophoria scripta</i>	Diptera	beneficial
Staphylinidae	Coleoptera	beneficial
<i>Stenodema laevigata</i>	Hemiptera	indifferent
<i>Stephanitis takeyai</i>	Hemiptera	indifferent
<i>Tachyporus</i> sp.	Coleoptera	beneficial
Tenthredinidae	Hymenoptera	pest
<i>Theridion</i> sp.	Araneae	beneficial
<i>Theridion varians</i>	Araneae	beneficial
Thomisidae	Araneae	beneficial
Thysanoptera (Thrips)	Thysanoptera	pest
Tipulidae	Diptera	pest
<i>Trigonotylus caelestialium</i>	Hemiptera	indifferent
Trombidiidae	Acarina	beneficial

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\* While well-known pests or beneficial arthropods were identified to species or family level based on morphological characteristics, other specimens (mostly considered as indifferent) were only classified into the family or an even higher taxonomic level for this study. \*\* Although *D. suzukii* is a serious pest in soft fruits, it is not considered as a pest for pome fruit.