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**Distinct pollinator communities persist among co-flowering specialty crops in  
Indiana**

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**Supplemental materials**



Fig. S1. Example of a pan trap set up for bee sampling in an apple orchard. Traps were adjusted to the height of flowers in each crop: apple and blueberry ~130 cm above the ground, tomato ~60 cm, watermelon ~30 cm.

Table S1. Flower observation (Obs) dates for each crop.

<b>Farm</b>	<b>Year</b>	<b>Obs 3</b>	<b>Obs 4</b>	<b>Obs 3</b>	<b>Obs 4</b>
Apple 1	2022	26-Apr	30-Apr	2-May	7-May
Apple 2	2022	26-Apr	30-Apr	2-May	8-May
Apple 3	2022	27-Apr	29-Apr	4-May	10-May
Apple 4	2022	27-Apr	2-May	4-May	8-May
Apple 5	2022	29-Apr	4-May	7-May	9-May
Apple 6	2023	25-Apr	26-Apr	3-May	4-May
Apple 7	2023	25-Apr	26-Apr	3-May	4-May
Apple 3	2023	19-Apr	20-Apr	24-Apr	27-Apr
Apple 4	2023	19-Apr	20-Apr	24-Apr	27-Apr
Apple 5	2023	21-Apr	26-Apr	27-Apr	3-May
Blueberry 1	2022	20-May	22-May	23-May	NA
Blueberry 2	2022	20-May	22-May	23-May	NA
Blueberry 3	2022	26-May	22-May	23-May	NA
Blueberry 4	2022	22-May	23-May	24-May	NA
Blueberry 5	2022	14-May	16-May	23-May	NA
Blueberry 1	2023	6-May	9-May	11-May	17-May
Blueberry 2	2023	5-May	10-May	11-May	16-May
Blueberry 3	2023	5-May	9-May	11-May	16-May
Blueberry 4	2023	6-May	10-May	11-May	17-May
Blueberry 5	2023	5-May	9-May	11-May	16-May
Tomato 1	2022	26-Jun	28-Jun	29-Jun	1-Jul

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<b>Farm</b>	<b>Year</b>	<b>Obs 1</b>	<b>Obs 2</b>	<b>Obs 3</b>	<b>Obs 4</b>
Tomato 2	2022	27-Jun	28-Jun	30-Jun	1-Jul
Tomato 3	2022	29-Jun	1-Jul	3-Jul	5-Jul
Tomato 4	2023	30-Jun	3-Jul	4-Jul	5-Jul
Tomato 5	2023	30-Jun	3-Jul	4-Jul	5-Jul
Tomato 2	2023	28-Jun	29-Jun	2-Jul	3-Jul
Tomato 1	2023	28-Jun	29-Jun	3-Jul	5-Jul
Tomato 3	2023	30-Jun	3-Jul	4-Jul	5-Jul
Watermelon 1- field 1	2022	25-Jul	28-Jul	4-Aug	11-Aug
Watermelon 1- field 2	2022	25-Jul	28-Jul	3-Aug	10-Aug
Watermelon 1- field 3	2022	25-Jul	28-Jul	3-Aug	10-Aug
Watermelon 2	2022	29-Jul	30-Jul	4-Aug	7-Aug

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Table S2. List of taxa caught in pan traps and their abundance in each crop system, combined over both sampling years, 2022 and 2023.

<b>Taxa</b>	<b>Apple</b>	<b>Blueberry</b>	<b>Tomato</b>	<b>Watermelon</b>
<i>Agapostemon sericeus</i>	0	5	1	5
<i>Agapostemon splendens</i>	0	11	0	16
<i>Agapostemon texanus</i>	0	2	0	0
<i>Agapostemon virescens</i>	0	1	5	2
<i>Andrena alleghaniensis</i>	0	2	0	0
<i>Andrena barbara</i>	19	0	0	0
<i>Andrena barbilabris</i>	1	4	0	0
<i>Andrena carlini</i>	16	8	0	0
<i>Andrena carolina</i>	0	33	0	0
<i>Andrena ceanothi</i>	1	1	0	0
<i>Andrena crataegi</i>	4	1	0	0
<i>Andrena cressonii</i>	8	5	0	0
<i>Andrena distans</i>	0	1	0	0
<i>Andrena dunningi</i>	6	2	0	0
<i>Andrena erigeniae</i>	2	0	0	0
<i>Andrena erythronii</i>	5	1	0	0
<i>Andrena fenningeri</i>	1	0	0	0
<i>Andrena forbesii</i>	0	6	0	0
<i>Andrena hippotes</i>	8	1	0	0
<i>Andrena ilicis</i>	5	0	0	0

<b>Taxa</b>	<b>Apple</b>	<b>Blueberry</b>	<b>Tomato</b>	<b>Watermelon</b>
<i>Andrena imitatrix</i>	84	14	0	0
<i>Andrena krigiana</i>	1	0	0	0
<i>Andrena mariae</i>	2	0	0	0
<i>Andrena miserabilis</i>	17	12	0	0
<i>Andrena morrisonella</i>	1	0	0	0
<i>Andrena nasonii</i>	51	13	0	0
<i>Andrena nigrihirta</i>	0	2	0	0
<i>Andrena nivalis</i>	1	4	0	0
<i>Andrena perplexa</i>	63	3	0	0
<i>Andrena personata</i>	1	0	0	0
<i>Andrena robertsonii</i>	1	0	0	0
<i>Andrena sayi</i>	0	1	0	0
<i>Andrena vicina</i>	6	19	0	0
<i>Andrena wilkella</i>	0	1	0	0
<i>Apis mellifera</i>	15	119	7	38
<i>Augochlora pura</i>	0	3	3	16
<i>Augochlorella aurata</i>	3	21	1	5
<i>Bombus fervidus</i>	1	2	0	0
<i>Bombus griseocollis</i>	0	1	0	0
<i>Bombus impatiens</i>	0	0	1	4
<i>Bombus pensylvanicus</i>	0	1	0	0
<i>Calliopsis andreniformis</i>	0	0	0	1

<b>Taxa</b>	<b>Apple</b>	<b>Blueberry</b>	<b>Tomato</b>	<b>Watermelon</b>
<i>Cemolobus ipomoeae</i>	0	0	0	1
<i>Ceratina calcarata</i>	1	8	0	0
<i>Colletes inaequalis</i>	6	4	0	0
<i>Colletes thoracicus</i>	0	6	0	0
<i>Colletes validus</i>	0	23	0	0
<i>Eucera atriventris</i>	0	4	0	0
<i>Eucera hamata</i>	0	0	3	0
<i>Halictus ligatus</i>	0	2	7	9
<i>Halictus parallelus</i>	0	1	2	38
<i>Halictus rubicundus</i>	1	0	8	0
<i>Lasioglossum coriaceum</i>	1	12	0	0
<i>Lasioglossum (Dialictus)</i>	15	321	128	295
<i>Lasioglossum leucozonium</i>	0	1	0	0
<i>Lasioglossum lustrans</i>	0	0	0	1
<i>Lasioglossum nelumbonis</i>	0	1	0	0
<i>Lasioglossum pectorale</i>	1	11	0	3
<i>Megachile frigida</i>	0	2	0	0
<i>Melissodes bimaculatus</i>	0	0	20	99
<i>Melissodes communis</i>	0	0	5	28
<i>Melissodes comptoides</i>	0	0	0	5
<i>Melissodes denticulatus</i>	0	0	1	5
<i>Melissodes niveus</i>	0	0	3	0

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<b>Taxa</b>	<b>Apple</b>	<b>Blueberry</b>	<b>Tomato</b>	<b>Watermelon</b>
<i>Melissodes tepaneca</i>	0	0	0	2
<i>Melissodes trinodis</i>	0	0	0	2
<i>Nomada spp</i>	0	3	0	0
<i>Nomia nortoni</i>	0	0	1	0
<i>Osmia atriventris</i>	0	1	0	0
<i>Osmia cornifrons</i>	0	1	0	0
<i>Osmia pumila</i>	0	1	1	0
<i>Osmia taurus</i>	0	1	0	0
<i>Osmia texana</i>	1	0	0	0
<i>Peponapis pruinosa</i>	0	0	1	137
<i>Sphecodes illinoensis</i>	0	0	1	0
<i>Sphecodes spp</i>	0	1	0	0
<i>Triepeolus remigatus</i>	0	0	0	1
<i>Xylocopa virginica</i>	1	1	0	0

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Table S3. Results of SIMPER analysis of pollinator communities in pan traps from each pair of crops for both sampling years, 2022 and 2023. Includes each taxa's contribution to the average dissimilarity between groups (average) and standard deviation (sd), the ratio of average to sd (ratio), average abundances per each group (ava and avb), cumulative contribution to difference (cumsum), and permutation p-value (p).

<b>APPLE X BLUEBERRY</b>							
<b>Species</b>	<b>average</b>	<b>sd</b>	<b>ratio</b>	<b>ava</b>	<b>avb</b>	<b>cumsum</b>	<b>p</b>
<i>Lasioglossum (Dialictus)</i>	0.143	0.075	1.909	0.302	2.430	0.177	0.006
<i>Apis mellifera</i>	0.061	0.053	1.158	0.381	1.054	0.252	0.173
<i>Andrena imitatrix</i>	0.060	0.036	1.657	1.279	0.414	0.327	0.029
<i>Andrena perplexa</i>	0.053	0.053	1.011	0.955	0.110	0.393	0.010
<i>Andrena nasonii</i>	0.039	0.032	1.224	0.792	0.358	0.440	0.082
<i>Augochlorella aurata</i>	0.038	0.036	1.054	0.102	0.576	0.487	0.008
<i>Colletes validus</i>	0.028	0.029	0.977	0.000	0.480	0.522	0.001
<i>Andrena vicina</i>	0.027	0.026	1.072	0.199	0.433	0.555	0.003
<i>Andrena carolina</i>	0.026	0.038	0.670	0.000	0.396	0.587	0.004
<i>Andrena carlini</i>	0.023	0.026	0.917	0.375	0.181	0.616	0.037
<i>Andrena miserabilis</i>	0.022	0.025	0.861	0.237	0.293	0.643	0.020
<i>Lasioglossum pectorale</i>	0.020	0.021	0.973	0.032	0.316	0.668	0.004
<i>Agapostemon splendens</i>	0.019	0.019	1.015	0.000	0.316	0.691	0.081
<i>Andrena barbara</i>	0.018	0.027	0.686	0.346	0.000	0.713	0.045
<i>Ceratina calcarata</i>	0.016	0.016	0.987	0.045	0.264	0.734	0.004
<i>Andrena dunningi</i>	0.015	0.034	0.457	0.154	0.069	0.753	0.237

<b>Species</b>	<b>average</b>	<b>sd</b>	<b>ratio</b>	<b>ava</b>	<b>avb</b>	<b>cumsum</b>	<b>p</b>
<i>Lasioglossum coriaceum</i>	0.015	0.017	0.918	0.045	0.287	0.772	0.003
<i>Colletes inaequalis</i>	0.015	0.019	0.776	0.179	0.110	0.790	0.047
<i>Andrena hippotes</i>	0.014	0.016	0.827	0.241	0.041	0.806	0.039
<i>Andrena cressonii</i>	0.013	0.015	0.914	0.191	0.132	0.823	0.041
<i>Andrena barbilabris</i>	0.012	0.021	0.561	0.045	0.132	0.838	0.015
<i>Colletes thoracicus</i>	0.012	0.015	0.755	0.000	0.162	0.852	0.002
<i>Andrena erythronii</i>	0.011	0.016	0.721	0.152	0.041	0.866	0.068
<i>Agapostemon sericeus</i>	0.011	0.015	0.718	0.000	0.154	0.879	0.590
<i>Andrena nivalis</i>	0.010	0.017	0.556	0.045	0.120	0.891	0.019
<i>Andrena ilicis</i>	0.009	0.014	0.660	0.145	0.000	0.902	0.076
<i>Andrena forbesii</i>	0.009	0.012	0.720	0.000	0.148	0.913	0.004
<i>Andrena crataegi</i>	0.007	0.011	0.598	0.134	0.029	0.922	0.101
<i>Halictus ligatus</i>	0.006	0.013	0.474	0.000	0.081	0.930	0.991
<i>Bombus fervidus</i>	0.006	0.011	0.520	0.045	0.051	0.936	0.205
<i>Eucera atriventris</i>	0.005	0.009	0.612	0.000	0.092	0.943	0.016
<i>Andrena mariae</i>	0.005	0.011	0.457	0.077	0.000	0.949	0.231
<i>Andrena erigeniae</i>	0.005	0.015	0.339	0.057	0.000	0.955	0.458
<i>Andrena nigrihirta</i>	0.005	0.011	0.447	0.000	0.063	0.961	0.049
<i>Andrena alleghaniensis</i>	0.005	0.011	0.446	0.000	0.081	0.967	0.052
<i>Megachile frigida</i>	0.004	0.010	0.430	0.000	0.063	0.973	0.046
<i>Nomada spp</i>	0.004	0.008	0.456	0.000	0.073	0.977	0.061
<i>Andrena ceanothi</i>	0.003	0.007	0.474	0.045	0.041	0.981	0.225

<b>Species</b>	<b>average</b>	<b>sd</b>	<b>ratio</b>	<b>ava</b>	<b>avb</b>	<b>cumsum</b>	<b>p</b>
<i>Andrena ceanothi</i>	0.003	0.007	0.474	0.045	0.041	0.981	0.225
<i>Augochlora pura</i>	0.003	0.010	0.326	0.000	0.069	0.985	0.995
<i>Agapostemon texanus</i>	0.003	0.006	0.477	0.000	0.051	0.989	0.048
<i>Xylocopa virginica</i>	0.003	0.005	0.466	0.025	0.022	0.992	0.236
<i>Agapostemon virescens</i>	0.002	0.005	0.318	0.000	0.022	0.994	0.972
<i>Osmia pumila</i>	0.002	0.005	0.327	0.000	0.041	0.996	0.669
<i>Halictus rubicundus</i>	0.002	0.005	0.344	0.025	0.000	0.998	0.955
<i>Halictus parallelus</i>	0.001	0.004	0.326	0.000	0.029	1.000	0.998

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#### **APPLE X TOMATO**

<b>Species</b>	<b>average</b>	<b>sd</b>	<b>ratio</b>	<b>ava</b>	<b>avb</b>	<b>cumsum</b>	<b>p</b>
<i>Lasioglossum (Dialictus)</i>	0.175	0.102	1.726	0.302	2.000	0.189	0.001
<i>Andrena imitatrix</i>	0.106	0.051	2.058	1.279	0.000	0.304	0.001
<i>Andrena perplexa</i>	0.073	0.074	0.992	0.955	0.000	0.383	0.002
<i>Andrena nasonii</i>	0.063	0.046	1.355	0.792	0.000	0.451	0.001
<i>Melissodes bimaculatus</i>	0.061	0.072	0.848	0.000	0.590	0.517	0.383
<i>Apis mellifera</i>	0.048	0.051	0.930	0.381	0.325	0.569	0.792
<i>Halictus ligatus</i>	0.029	0.034	0.839	0.000	0.303	0.600	0.004
<i>Halictus rubicundus</i>	0.029	0.042	0.684	0.025	0.303	0.631	0.001
<i>Andrena carlini</i>	0.028	0.035	0.783	0.375	0.000	0.661	0.004
<i>Andrena barbara</i>	0.024	0.034	0.712	0.346	0.000	0.687	0.001
<i>Agapostemon virescens</i>	0.022	0.034	0.657	0.000	0.224	0.711	0.013
<i>Melissodes niveus</i>	0.017	0.025	0.671	0.000	0.152	0.729	0.001

<b>Species</b>	<b>average</b>	<b>sd</b>	<b>ratio</b>	<b>ava</b>	<b>avb</b>	<b>cumsum</b>	<b>p</b>
<i>Melissodes niveus</i>	0.017	0.025	0.671	0.000	0.152	0.729	0.001
<i>Andrena dunningi</i>	0.017	0.048	0.347	0.154	0.000	0.747	0.238
<i>Andrena hippotes</i>	0.016	0.021	0.772	0.241	0.000	0.764	0.006
<i>Augochlorella aurata</i>	0.016	0.036	0.441	0.102	0.051	0.781	0.878
<i>Andrena erythronii</i>	0.015	0.022	0.675	0.152	0.000	0.797	0.011
<i>Melissodes communis</i>	0.014	0.040	0.354	0.000	0.157	0.813	0.851
<i>Andrena miserabilis</i>	0.014	0.031	0.449	0.237	0.000	0.827	0.435
<i>Andrena vicina</i>	0.014	0.022	0.634	0.199	0.000	0.842	0.725
<i>Andrena cressonii</i>	0.013	0.021	0.639	0.191	0.000	0.857	0.045
<i>Colletes inaequalis</i>	0.013	0.026	0.522	0.179	0.000	0.871	0.125
<i>Andrena ilicis</i>	0.013	0.019	0.663	0.145	0.000	0.885	0.001
<i>Augochlora pura</i>	0.012	0.023	0.520	0.000	0.137	0.898	0.827
<i>Eucera hamata</i>	0.011	0.032	0.352	0.000	0.115	0.910	0.024
<i>Halictus parallelus</i>	0.010	0.020	0.522	0.000	0.101	0.922	0.875
<i>Andrena erigeniae</i>	0.008	0.023	0.344	0.057	0.000	0.930	0.028
<i>Andrena crataegi</i>	0.007	0.014	0.516	0.134	0.000	0.938	0.069
<i>Andrena mariae</i>	0.007	0.016	0.447	0.077	0.000	0.946	0.007
<i>Bombus impatiens</i>	0.006	0.019	0.339	0.000	0.051	0.953	0.560
<i>Bombus fervidus</i>	0.006	0.016	0.346	0.045	0.000	0.959	0.278
<i>Ceratina calcarata</i>	0.006	0.016	0.346	0.045	0.000	0.965	0.870
<i>Peponapis pruinosa</i>	0.005	0.014	0.352	0.000	0.051	0.970	0.958
<i>Agapostemon sericeus</i>	0.004	0.013	0.356	0.000	0.051	0.975	0.953

<b>Species</b>	<b>average</b>	<b>sd</b>	<b>ratio</b>	<b>ava</b>	<b>avb</b>	<b>cumsum</b>	<b>p</b>
<i>Melissodes denticulatus</i>	0.004	0.013	0.356	0.000	0.051	0.980	0.845
<i>Osmia pumila</i>	0.004	0.012	0.356	0.000	0.051	0.985	0.237
<i>Andrena barbilabris</i>	0.003	0.007	0.350	0.045	0.000	0.987	0.800
<i>Andrena ceanothi</i>	0.003	0.007	0.350	0.045	0.000	0.990	0.267
<i>Andrena nivalis</i>	0.003	0.007	0.350	0.045	0.000	0.993	0.721
<i>Lasioglossum coriaceum</i>	0.003	0.007	0.350	0.045	0.000	0.996	0.961
<i>Xylocopa virginica</i>	0.002	0.006	0.348	0.025	0.000	0.998	0.244
<i>Lasioglossum pectorale</i>	0.002	0.005	0.350	0.032	0.000	1.000	0.998
<b>APPLE X WATERMELON</b>							
<b>Species</b>	<b>average</b>	<b>sd</b>	<b>ratio</b>	<b>ava</b>	<b>avb</b>	<b>cumsum</b>	<b>p</b>
<i>Lasioglossum (Dialictus)</i>	0.159	0.092	1.718	0.302	2.686	0.169	0.001
<i>Melissodes bimaculatus</i>	0.109	0.067	1.638	0.000	1.770	0.286	0.001
<i>Andrena imitatrix</i>	0.076	0.044	1.746	1.279	0.000	0.367	0.002
<i>Andrena perplexa</i>	0.054	0.058	0.939	0.955	0.000	0.425	0.012
<i>Apis mellifera</i>	0.052	0.046	1.144	0.381	0.848	0.480	0.585
<i>Peponapis pruinosa</i>	0.048	0.053	0.897	0.000	0.913	0.531	0.001
<i>Andrena nasonii</i>	0.046	0.037	1.219	0.792	0.000	0.580	0.005
<i>Melissodes communis</i>	0.042	0.031	1.376	0.000	0.769	0.624	0.001
<i>Augochlora pura</i>	0.032	0.043	0.736	0.000	0.565	0.659	0.022
<i>Halictus parallelus</i>	0.031	0.033	0.933	0.000	0.678	0.692	0.003
<i>Melissodes comptoides</i>	0.022	0.035	0.630	0.000	0.321	0.715	0.002
<i>Andrena carlini</i>	0.021	0.028	0.746	0.375	0.000	0.737	0.156

<b>Species</b>	<b>average</b>	<b>sd</b>	<b>ratio</b>	<b>ava</b>	<b>avb</b>	<b>cumsum</b>	<b>p</b>
<i>Andrena barbara</i>	0.018	0.027	0.671	0.346	0.000	0.757	0.062
<i>Melissodes denticulatus</i>	0.018	0.027	0.652	0.000	0.308	0.776	0.028
<i>Halictus ligatus</i>	0.014	0.021	0.662	0.000	0.286	0.790	0.774
<i>Augochlorella aurata</i>	0.013	0.026	0.517	0.102	0.167	0.805	0.937
<i>Agapostemon splendens</i>	0.013	0.022	0.594	0.000	0.321	0.819	0.565
<i>Agapostemon sericeus</i>	0.012	0.023	0.541	0.000	0.244	0.832	0.434
<i>Andrena hippotes</i>	0.012	0.016	0.743	0.241	0.000	0.845	0.120
<i>Bombus impatiens</i>	0.012	0.020	0.587	0.000	0.199	0.858	0.123
<i>Andrena dunningi</i>	0.011	0.034	0.331	0.154	0.000	0.870	0.474
<i>Melissodes tepaneca</i>	0.011	0.023	0.485	0.000	0.154	0.882	0.009
<i>Andrena miserabilis</i>	0.011	0.025	0.430	0.237	0.000	0.893	0.645
<i>Andrena vicina</i>	0.010	0.017	0.600	0.199	0.000	0.904	0.913
<i>Andrena erythronii</i>	0.010	0.016	0.642	0.152	0.000	0.915	0.145
<i>Andrena cressonii</i>	0.010	0.016	0.610	0.191	0.000	0.926	0.277
<i>Colletes inaequalis</i>	0.010	0.020	0.506	0.179	0.000	0.936	0.403
<i>Andrena ilicis</i>	0.009	0.014	0.634	0.145	0.000	0.946	0.070
<i>Agapostemon virescens</i>	0.007	0.020	0.343	0.000	0.122	0.953	0.816
<i>Lasioglossum pectorale</i>	0.007	0.011	0.588	0.032	0.122	0.960	0.929
<i>Andrena crataegi</i>	0.006	0.012	0.505	0.134	0.000	0.967	0.222
<i>Andrena erigeniae</i>	0.005	0.016	0.324	0.057	0.000	0.972	0.428
<i>Andrena mariae</i>	0.005	0.011	0.438	0.077	0.000	0.977	0.248
<i>Bombus fervidus</i>	0.004	0.011	0.328	0.045	0.000	0.981	0.509

<b>Species</b>	<b>average</b>	<b>sd</b>	<b>ratio</b>	<b>ava</b>	<b>avb</b>	<b>cumsum</b>	<b>p</b>
<i>Ceratina calcarata</i>	0.004	0.011	0.328	0.045	0.000	0.985	0.972
<i>Melissodes trinodis</i>	0.002	0.007	0.348	0.000	0.077	0.988	0.065
<i>Andrena barbilabris</i>	0.002	0.006	0.342	0.045	0.000	0.990	0.888
<i>Andrena ceanothi</i>	0.002	0.006	0.342	0.045	0.000	0.992	0.512
<i>Andrena nivalis</i>	0.002	0.006	0.342	0.045	0.000	0.994	0.840
<i>Lasioglossum coriaceum</i>	0.002	0.006	0.342	0.045	0.000	0.997	0.984
<i>Halictus rubicundus</i>	0.002	0.005	0.335	0.025	0.000	0.998	0.948
<i>Xylocopa virginica</i>	0.002	0.005	0.335	0.025	0.000	1.000	0.507

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**BLUEBERRY X TOMATO**

<b>Species</b>	<b>average</b>	<b>sd</b>	<b>ratio</b>	<b>ava</b>	<b>avb</b>	<b>cumsum</b>	<b>p</b>
<i>Lasioglossum (Dialictus)</i>	0.067	0.049	1.362	2.430	2.000	0.096	0.996
<i>Apis mellifera</i>	0.062	0.050	1.230	1.054	0.325	0.184	0.185
<i>Melissodes bimaculatus</i>	0.044	0.049	0.900	0.000	0.590	0.246	0.837
<i>Augochlorella aurata</i>	0.039	0.037	1.065	0.576	0.051	0.302	0.007
<i>Colletes validus</i>	0.030	0.029	1.020	0.480	0.000	0.345	0.001
<i>Andrena imitatrix</i>	0.030	0.030	0.998	0.414	0.000	0.387	0.937
<i>Andrena vicina</i>	0.028	0.028	1.032	0.433	0.000	0.428	0.002
<i>Andrena carolina</i>	0.028	0.040	0.696	0.396	0.000	0.467	0.005
<i>Andrena nasonii</i>	0.023	0.020	1.155	0.358	0.000	0.500	0.812
<i>Lasioglossum pectorale</i>	0.022	0.021	1.028	0.316	0.000	0.530	0.002
<i>Halictus ligatus</i>	0.021	0.022	0.961	0.081	0.303	0.561	0.214
<i>Halictus rubicundus</i>	0.021	0.031	0.678	0.000	0.303	0.591	0.059

<b>Species</b>	<b>average</b>	<b>sd</b>	<b>ratio</b>	<b>ava</b>	<b>avb</b>	<b>cumsum</b>	<b>p</b>
<i>Agapostemon splendens</i>	0.020	0.019	1.069	0.316	0.000	0.619	0.068
<i>Ceratina calcarata</i>	0.018	0.017	1.031	0.264	0.000	0.644	0.009
<i>Agapostemon virescens</i>	0.017	0.022	0.758	0.022	0.224	0.668	0.158
<i>Lasioglossum coriaceum</i>	0.016	0.018	0.902	0.287	0.000	0.691	0.006
<i>Andrena miserabilis</i>	0.016	0.020	0.808	0.293	0.000	0.714	0.284
<i>Agapostemon sericeus</i>	0.013	0.015	0.815	0.154	0.051	0.732	0.391
<i>Colletes thoracicus</i>	0.013	0.016	0.791	0.162	0.000	0.749	0.002
<i>Andrena barbilabris</i>	0.012	0.022	0.539	0.132	0.000	0.766	0.040
<i>Melissodes niveus</i>	0.012	0.016	0.730	0.000	0.152	0.783	0.022
<i>Augochlora pura</i>	0.011	0.018	0.628	0.069	0.137	0.799	0.832
<i>Melissodes communis</i>	0.011	0.029	0.366	0.000	0.157	0.815	0.930
<i>Andrena forbesii</i>	0.010	0.013	0.745	0.148	0.000	0.828	0.003
<i>Andrena carlini</i>	0.009	0.016	0.600	0.181	0.000	0.842	0.815
<i>Andrena nivalis</i>	0.009	0.018	0.506	0.120	0.000	0.855	0.074
<i>Eucera hamata</i>	0.008	0.023	0.365	0.000	0.115	0.866	0.301
<i>Halictus parallelus</i>	0.008	0.013	0.615	0.029	0.101	0.878	0.927
<i>Colletes inaequalis</i>	0.008	0.014	0.579	0.110	0.000	0.889	0.608
<i>Andrena cressonii</i>	0.007	0.009	0.786	0.132	0.000	0.900	0.641
<i>Andrena perplexa</i>	0.006	0.010	0.602	0.110	0.000	0.909	0.982
<i>Andrena dunningi</i>	0.006	0.018	0.329	0.069	0.000	0.917	0.590
<i>Eucera atriventris</i>	0.006	0.009	0.630	0.092	0.000	0.925	0.010
<i>Andrena nigrihirta</i>	0.005	0.011	0.465	0.063	0.000	0.933	0.035



<b>Species</b>	<b>average</b>	<b>sd</b>	<b>ratio</b>	<b>ava</b>	<b>avb</b>	<b>cumsum</b>	<b>p</b>
<i>Andrena nigrihirta</i>	0.005	0.011	0.465	0.063	0.000	0.933	0.035
<i>Andrena alleghaniensis</i>	0.005	0.011	0.461	0.081	0.000	0.940	0.037
<i>Osmia pumila</i>	0.005	0.010	0.475	0.041	0.051	0.947	0.172
<i>Megachile frigida</i>	0.005	0.010	0.444	0.063	0.000	0.954	0.039
<i>Bombus impatiens</i>	0.004	0.012	0.363	0.000	0.051	0.960	0.830
<i>Nomada spp</i>	0.004	0.008	0.465	0.073	0.000	0.965	0.055
<i>Peponapis pruinosa</i>	0.004	0.010	0.365	0.000	0.051	0.970	0.975
<i>Andrena hippotes</i>	0.004	0.011	0.329	0.041	0.000	0.975	0.882
<i>Melissodes denticulatus</i>	0.003	0.009	0.366	0.000	0.051	0.980	0.918
<i>Andrena erythronii</i>	0.003	0.010	0.329	0.041	0.000	0.985	0.872
<i>Agapostemon texanus</i>	0.003	0.007	0.491	0.051	0.000	0.990	0.039
<i>Bombus fervidus</i>	0.003	0.006	0.494	0.051	0.000	0.994	0.530
<i>Andrena ceanothi</i>	0.002	0.005	0.331	0.041	0.000	0.996	0.634
<i>Andrena crataegi</i>	0.001	0.004	0.330	0.029	0.000	0.998	0.821
<i>Xylocopa virginica</i>	0.001	0.004	0.330	0.022	0.000	1.000	0.628

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**BLUEBERRY X WATERMELON**

<b>Species</b>	<b>average</b>	<b>sd</b>	<b>ratio</b>	<b>ava</b>	<b>avb</b>	<b>cumsum</b>	<b>p</b>
<i>Melissodes bimaculatus</i>	0.088	0.050	1.782	0.000	1.770	0.122	0.005
<i>Lasioglossum (Dialictus)</i>	0.063	0.058	1.097	2.430	2.686	0.210	1.000
<i>Apis mellifera</i>	0.051	0.039	1.319	1.054	0.848	0.281	0.622
<i>Peponapis pruinosa</i>	0.039	0.044	0.892	0.000	0.913	0.335	0.012
<i>Melissodes communis</i>	0.035	0.024	1.421	0.000	0.769	0.383	0.017

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<b>Species</b>	<b>average</b>	<b>sd</b>	<b>ratio</b>	<b>ava</b>	<b>avb</b>	<b>cumsum</b>	<b>p</b>
<i>Augochlorella aurata</i>	0.030	0.029	1.041	0.576	0.167	0.425	0.177
<i>Augochlora pura</i>	0.027	0.035	0.770	0.069	0.565	0.462	0.136
<i>Halictus parallelus</i>	0.027	0.028	0.943	0.029	0.678	0.499	0.029
<i>Colletes validus</i>	0.023	0.024	0.974	0.480	0.000	0.531	0.012
<i>Andrena imitatrix</i>	0.022	0.023	0.960	0.414	0.000	0.561	0.998
<i>Andrena vicina</i>	0.022	0.022	0.983	0.433	0.000	0.591	0.135
<i>Andrena carolina</i>	0.021	0.031	0.663	0.396	0.000	0.620	0.096
<i>Agapostemon splendens</i>	0.020	0.019	1.030	0.316	0.321	0.647	0.053
<i>Andrena nasonii</i>	0.018	0.016	1.099	0.358	0.000	0.672	0.966
<i>Melissodes comptoides</i>	0.018	0.026	0.678	0.000	0.321	0.696	0.034
<i>Lasioglossum pectorale</i>	0.016	0.016	1.023	0.316	0.122	0.719	0.057
<i>Agapostemon sericeus</i>	0.015	0.018	0.822	0.154	0.244	0.739	0.211
<i>Melissodes denticulatus</i>	0.015	0.022	0.658	0.000	0.308	0.760	0.101
<i>Halictus ligatus</i>	0.014	0.017	0.829	0.081	0.286	0.779	0.764
<i>Ceratina calcarata</i>	0.013	0.013	0.983	0.264	0.000	0.797	0.088
<i>Lasioglossum coriaceum</i>	0.013	0.015	0.863	0.287	0.000	0.815	0.042
<i>Andrena miserabilis</i>	0.013	0.016	0.765	0.293	0.000	0.832	0.552
<i>Bombus impatiens</i>	0.010	0.016	0.609	0.000	0.199	0.845	0.240
<i>Colletes thoracicus</i>	0.009	0.012	0.758	0.162	0.000	0.858	0.036
<i>Melissodes tepaneca</i>	0.009	0.018	0.507	0.000	0.154	0.870	0.147
<i>Andrena barbilabris</i>	0.009	0.016	0.521	0.132	0.000	0.882	0.310
<i>Andrena carlini</i>	0.007	0.013	0.587	0.181	0.000	0.893	0.923

<b>Species</b>	<b>average</b>	<b>sd</b>	<b>ratio</b>	<b>ava</b>	<b>avb</b>	<b>cumsum</b>	<b>p</b>
<i>Andrena forbesii</i>	0.007	0.010	0.718	0.148	0.000	0.903	0.055
<i>Andrena nivalis</i>	0.007	0.014	0.494	0.120	0.000	0.912	0.377
<i>Agapostemon virescens</i>	0.007	0.016	0.420	0.022	0.122	0.922	0.834
<i>Colletes inaequalis</i>	0.006	0.010	0.570	0.110	0.000	0.930	0.780
<i>Andrena cressonii</i>	0.006	0.008	0.762	0.132	0.000	0.938	0.818
<i>Andrena perplexa</i>	0.005	0.008	0.594	0.110	0.000	0.944	0.996
<i>Eucera atriventris</i>	0.004	0.007	0.610	0.092	0.000	0.951	0.110
<i>Andrena dunningi</i>	0.004	0.014	0.317	0.069	0.000	0.957	0.770
<i>Andrena alleghaniensis</i>	0.004	0.009	0.455	0.081	0.000	0.962	0.247
<i>Andrena nigrihirta</i>	0.004	0.009	0.448	0.063	0.000	0.967	0.268
<i>Megachile frigida</i>	0.003	0.008	0.434	0.063	0.000	0.972	0.266
<i>Nomada spp</i>	0.003	0.007	0.453	0.073	0.000	0.976	0.258
<i>Andrena hippotes</i>	0.003	0.008	0.317	0.041	0.000	0.980	0.945
<i>Agapostemon texanus</i>	0.003	0.005	0.478	0.051	0.000	0.983	0.263
<i>Andrena erythronii</i>	0.002	0.008	0.318	0.041	0.000	0.987	0.956
<i>Melissodes trinodis</i>	0.002	0.006	0.349	0.000	0.077	0.990	0.293
<i>Bombus fervidus</i>	0.002	0.005	0.483	0.051	0.000	0.993	0.670
<i>Andrena ceanothi</i>	0.001	0.004	0.326	0.041	0.000	0.995	0.793
<i>Osmia pumila</i>	0.001	0.004	0.326	0.041	0.000	0.997	0.766
<i>Andrena crataegi</i>	0.001	0.004	0.324	0.029	0.000	0.999	0.916
<i>Xylocopa virginica</i>	0.001	0.003	0.323	0.022	0.000	1.000	0.783

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**TOMATO X WATERMELON**

<b>Species</b>	<b>average</b>	<b>sd</b>	<b>ratio</b>	<b>ava</b>	<b>avb</b>	<b>cumsum</b>	<b>p</b>
<i>Melissodes bimaculatus</i>	0.091	0.061	1.485	0.590	1.770	0.149	0.004
<i>Lasioglossum (Dialictus)</i>	0.090	0.066	1.367	2.000	2.686	0.298	0.807
<i>Apis mellifera</i>	0.051	0.042	1.209	0.325	0.848	0.382	0.594
<i>Peponapis pruinosa</i>	0.051	0.053	0.962	0.051	0.913	0.465	0.002
<i>Melissodes communis</i>	0.046	0.032	1.442	0.157	0.769	0.541	0.001
<i>Augochlora pura</i>	0.036	0.043	0.840	0.137	0.565	0.599	0.006
<i>Halictus parallelus</i>	0.034	0.032	1.084	0.101	0.678	0.655	0.001
<i>Halictus ligatus</i>	0.026	0.025	1.060	0.303	0.286	0.699	0.023
<i>Melissodes comptooides</i>	0.024	0.036	0.662	0.000	0.321	0.738	0.002
<i>Halictus rubicundus</i>	0.021	0.032	0.653	0.303	0.000	0.773	0.065
<i>Agapostemon virescens</i>	0.021	0.027	0.770	0.224	0.122	0.806	0.046
<i>Melissodes denticulatus</i>	0.020	0.027	0.749	0.051	0.308	0.840	0.008
<i>Agapostemon sericeus</i>	0.015	0.024	0.630	0.051	0.244	0.864	0.232
<i>Bombus impatiens</i>	0.015	0.021	0.703	0.051	0.199	0.888	0.018
<i>Agapostemon splendens</i>	0.014	0.023	0.607	0.000	0.321	0.912	0.500
<i>Melissodes tepaneca</i>	0.012	0.024	0.506	0.000	0.154	0.931	0.013
<i>Melissodes niveus</i>	0.012	0.017	0.692	0.152	0.000	0.951	0.029
<i>Augochlorella aurata</i>	0.009	0.015	0.637	0.051	0.167	0.966	0.983
<i>Eucera hamata</i>	0.008	0.024	0.354	0.115	0.000	0.980	0.367
<i>Lasioglossum pectorale</i>	0.006	0.012	0.521	0.000	0.122	0.990	0.945
<i>Osmia pumila</i>	0.003	0.010	0.357	0.051	0.000	0.996	0.440
<i>Melissodes trinodis</i>	0.003	0.007	0.351	0.000	0.077	1.000	0.198

Table S4. Abundance of taxa observed visiting flowers in each crop, combined across both years of data collection, 2022 and 2023. Values refer to the number of individuals observed, rather than the number of flower visits.

<b>Taxa</b>	<b>Apple</b>	<b>Blueberry</b>	<b>Tomato</b>	<b>Watermelon</b>
<i>Andrena</i>	123	54	0	0
<i>Apis mellifera</i>	420	352	3	25
Augochlorini	1	7	1	7
<i>Bombus auricomus</i>	0	0	5	0
<i>Bombus bimaculatus</i>	2	1	1	0
<i>Bombus griseocollis</i>	0	1	43	0
<i>Bombus impatiens</i>	21	13	6	2
<i>Bombus spp.</i>	0	23	0	0
<i>Ceratina</i>	0	1	0	1
<i>Colletes</i>	0	16	0	0
<i>Eucera pruinoa</i>	0	0	0	2
<i>Halictus</i>	13	8	2	3
<i>Lasioglossum</i>	17	13	25	89
<i>Melissodes bimaculatus</i>	0	0	0	4
<i>Nomada</i>	1	1	0	0
<i>Osmia</i>	0	1	0	0
<i>Sphecodes</i>	1	0	0	0
<i>Xylocopa virginica</i>	1	5	2	3