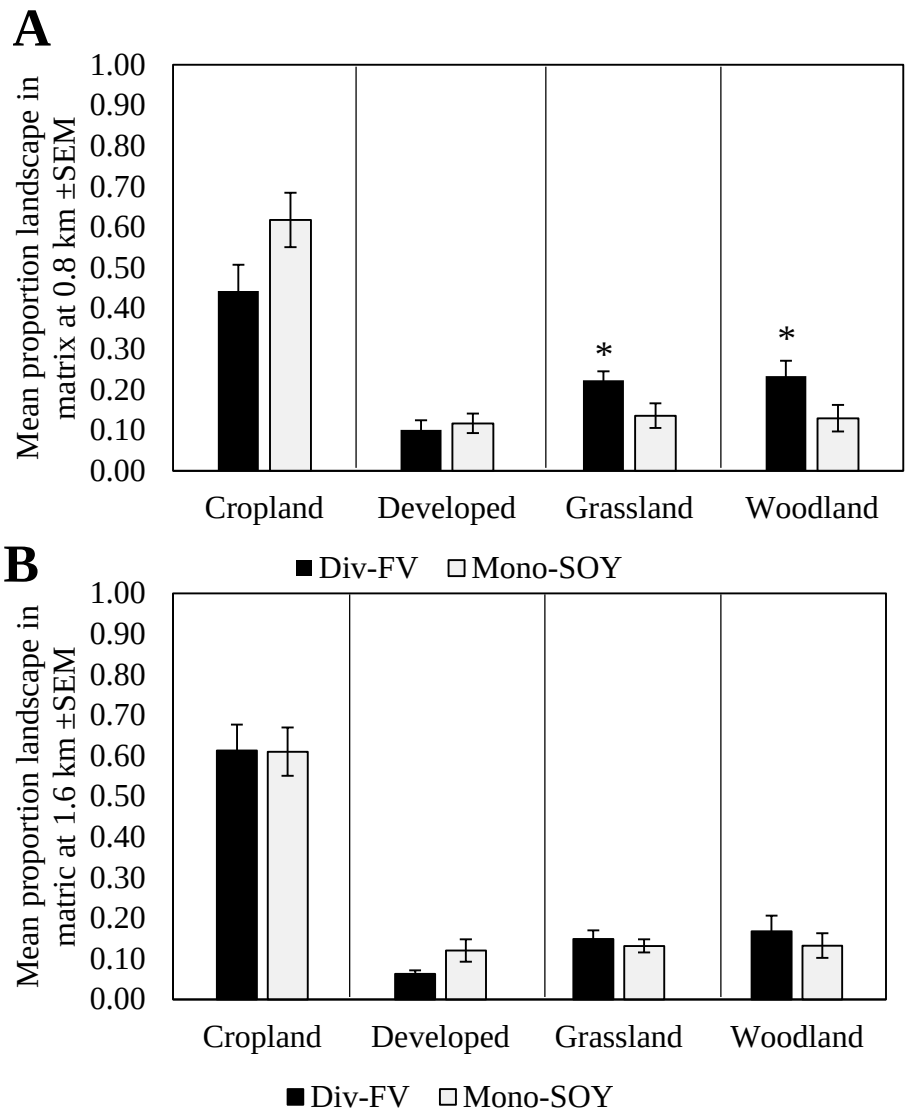

Figure S1. (A) Mean proportion of each landscape category found within a 0.8 km radius of colonies in Div-FV (black) and Mono-SOY (grey) farms in central Iowa over 2015 and 2016. Two tailed t-tests of each landscape category showed no difference in proportion cropland ($T_{23.218}$= 1.88; P=0.07) or developed land ($T_{23.10}$=0.47; P=0.64) surrounding farms. However, there were significantly greater proportions of grassland ($T_{26.50}$=2.31; P=0.03) and woodland ($T_{19.80}$=2.08; P=0.05) surrounding Div-FV farms compared to Mono-SOY farms. **(B)** Mean proportion of each landscape category found within a 1.6 km radius of colonies in Div-FV (black) and Mono-SOY (grey) farms in central Iowa over 2015 and 2016. Data represent 4 Div-FV and 10 Mono-SOY farms in 2015 and 5 Div-FV and 10 Mono-SOY farms in 2016. Two tailed t-tests of each landscape category showed no difference in proportion cropland ($T_{18.17}$= 0.04; P=0.97), developed ($T_{22.61}$=1.97; P=0.07), grassland ($T_{18.17}$=0.65; P=0.52), or woodland ($T_{18.132}$=0.72; P=0.48) between Div-Fv and Mono-SOY farms.

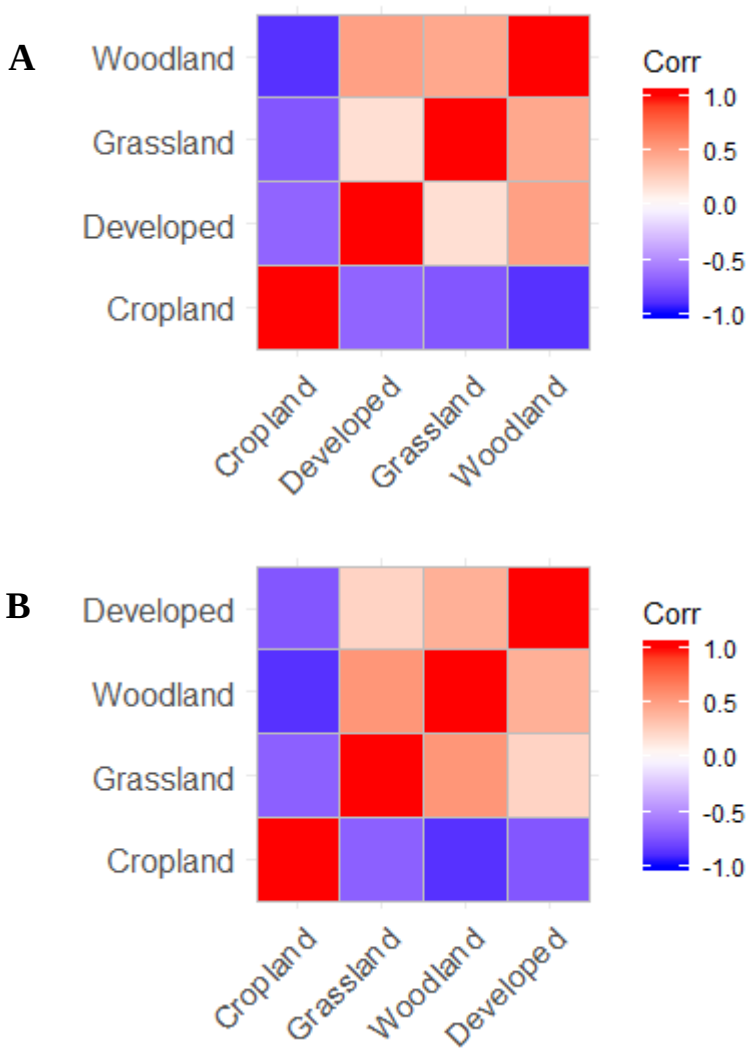

Figure S2. Correlation plots for land cover features surrounding Mono-SOY and Div-FV farms in 2015 and 2016 at **(A)** 0.8 km and **(B)** 1.6 km radius.

Table S1. Farms selected for bee community sampling in central Iowa during 2015 and 2016.

Site	Farm Type	Year	County
JUL	Mono-Soy	2015	Boone
LIP	Mono-Soy	2015	Boone
CAT	Mono-Soy	2015	Boone
WDAR	Mono-Soy	2015	Story
CUR	Mono-Soy	2015	Story
HOR	Mono-Soy	2015	Story
OFAM	Mono-Soy	2015	Hardin
GLI	Mono-Soy	2015	Hardin
IR	Mono-Soy	2015	Hardin
LP	Mono-Soy	2015	Hardin
IVI	Mono-Soy	2016	Boone
KOS	Mono-Soy	2016	Boone
TRA1	Mono-Soy	2016	Boone
TRA3	Mono-Soy	2016	Boone
CUR	Mono-Soy	2016	Story
EASD	Mono-Soy	2016	Story
HAG1	Mono-Soy	2016	Story
OAK	Mono-Soy	2016	Story
ONT	Mono-Soy	2016	Story
UTH	Mono-Soy	2016	Story
SEV	Div-FV	2015, 2016	Story
RIV	Div-FV	2015, 2016	Polk
MUS	Div-FV	2016	Story
BER	Div-FV	2016	Polk
BLA	Div-FV	2016	Polk
NFAM	Div-FV	2016	Polk
MESK	Div-FV	2016	Tama

Table S2. Div-FV (diverse fruit and vegetable) farm land area and number of crops in production in 2015 and 2016.

Farm	Sampling Year	Hectares	Number of crops	Pesticide Regime
NFAM	2015	2.0	30	Conventional
MESK	2015	2.8	15	Conventional
SEV	2015, 2016	1.8	36	Certified Organic
RIV	2015, 2016	4.8	31	Conventional
MUS	2016	1.2	35	Conventional
BER	2016	16.2	12	Conventional
BLA	2016	14.6	50	Certified Organic

Table S3. Number of bees collected in pan traps in each taxa over the two years of the study in each farm type.

Family	Genus	Species	2015		2016	
			Div-FV	Mono-SOY	Div-FV	Mono-SOY
Andrenidae	*Calliopsis*	*andreniformis*	0	1	0	2
	Perdita	*boltoniae*	1	0	0	0
	Perdita	*halictoides*	1	1	0	0
	Protandrena	*bancrofti*	1	0	0	0
Apidae	*Bombus*	*bimacluatus*	0	1	5	5
	Bombus	*citrinus*	0	0	1	0
	Bombus	*griseocollis*	1	1	2	2
	Bombus	*impatiens*	4	3	3	3
	Bombus	*pensylvanicus*	0	0	2	1
	Bombus	*perplexus*	0	1	0	0
	Bombus	*vagans*	0	0	2	4
	Bombus	*variabilis*	0	1	1	0
	Ceratina	*calcarata*	0	0	3	0
	Ceratina	*dupla*	0	1	6	0
	Ceratina	*strenua*	0	1	0	0
	Eucera	*atriventris*	0	0	0	1
	Eucera	*hammata*	0	0	1	8
	Melissodes	*agilis*	1	7	2	3
	Melissodes	*bimaculata*	20	213	27	50
	Melissodes	*boltoniae*	1	1	1	1
	Melissodes	*communis*	0	5	0	2
	Melissodes	*desponsa*	1	2	0	3
	Melissodes	*trinodis*	1	9	2	3
	Melissodes	*veroninae*	1	0	0	0
	Nomada	*vegana*	1	0	0	1
	Peponapis	*pruinosa*	4	10	2	0
	Svastra	*compta*	0	1	0	0
Collectidae	*Colletes*	*consars*	0	1	0	0
	Hylaeus	*affinis*	0	1	2	2
	Hylaeus	*annulatus*	0	2	2	0
Halictidae	*Agapostemon*	*texanus*	2	20	23	102
	Agapostemon	*virescens*	30	161	65	112
	Augochlora	*pura*	1	0	10	10
	Augochlorella	*aurata*	7	18	16	20
	Augochloropsis	*metallica*	2	3	2	0
	Dieunomia	*triangulifera*	0	0	0	5
	Halictus	*confusus*	0	4	11	81
	Halictus	*ligatus*	8	94	7	57
	Halictus	*parallelus*	1	4	40	29
	Halictus	*rubicundus*	2	6	6	20
	Halictus	*tripartitus*	0	0	0	2

Table S3 Continued.

Family	Genus	Species	2015		2016	
			Div-FV	Mono-SOY	Div-FV	Mono-SOY
Halictidae	*Lasioglossum (Evylaeus)*	*sp 1*	3	11	70	63
	Lasioglossum (Evylaeus)	*sp 2*	1	1	1	12
	Lasioglossum (Dialictus)	*sp 1*	41	146	181	442
	Lasioglossum (Dialictus)	*sp 2*	14	81	47	100
	Lasioglossum (Dialictus)	*sp 3*	4	3	2	8
	Lasioglossum (Dialictus)	*sp 4*	3	1	5	7
	Lasioglossum (Dialictus)	*sp 5*	0	0	0	22
	Lasioglossum (Dialictus)	*sp 6*	4	31	32	65
	Lasioglossum (Dialictus)	*sp 7*	0	1	0	2
	Lasioglossum (Dialictus)	*sp 8*	0	12	1	0
	Lasioglossum (Dialictus)	*sp 9*	5	11	34	67
	Lasioglossum (Dialictus)	*sp 10*	0	0	2	1
	Lasioglossum (Dialictus)	*sp 11*	0	0	1	3
	Lasioglossum (Dialictus)	*sp 12*	53	39	45	48
	Lasioglossum (Dialictus)	*sp 13*	0	0	0	6
	Lasioglossum (Dialictus)	*sp 14*	4	132	38	298
	Lasioglossum (Dialictus)	*sp 15*	0	0	0	6
	Lasioglossum (Dialictus)	*sp 16*	0	0	0	4
	Lasioglossum (Dialictus)	*sp 17*	0	0	0	1
	Lasioglossum (Dialictus)	*sp 18*	0	1	0	54
	Lasioglossum (Dialictus)	*sp 19*	0	0	0	6
	Lasioglossum (Dialictus)	*sp 20*	0	0	3	5
	Lasioglossum (Dialictus)	*sp 21*	0	0	1	1
	Lasioglossum (Dialictus)	*sp 22*	2	0	1	3
	Lasioglossum (Dialictus)	*sp 23*	2	5	6	7
	Lasioglossum (Dialictus)	*sp 24*	0	0	5	15
	Lasioglossum (Dialictus)	*sp 25*	13	6	12	28
	Lasioglossum (Dialictus)	*sp 26*	0	0	0	12
	Lasioglossum (Dialictus)	*sp 27*	0	0	0	1
	Lasioglossum (Dialictus)	*sp 28*	0	0	0	1
	Lasioglossum (Dialictus)	*sp 29*	5	3	1	1
	Lasioglossum (Dialictus)	*sp 30*	2	1	3	3
	Lasioglossum (Dialictus)	*sp 31*	6	0	10	7
	Lasioglossum (Dialictus)	*sp 32*	0	0	0	1
	Lasioglossum (Dialictus)	*sp 33*	0	0	0	1
	Nomia	*universitatis*	0	1	0	0
	Sphecodes	*davisii*	1	0	0	0
Megachilidae	*Ashmeadiella*	*bucconis*	1	0	0	0
	Megachile	*brevis*	0	0	0	1
	Megachile	*parallela*	0	0	0	1

Table S4. Abundance, richness, and diversity of the wild bee community in Div-FV and Mono-SOY farms in central Iowa in 2015 and 2016.

	Effect	Num DF	Den DF	F Value	Pr > F
Abundance	***Year***	1	28.03	1.72	0.1998
	Farm Type	1	24.9	0.96	0.3377
	Month	3	125	4.27	**0.0066**
	Farm Type*Month	3	129.5	1.09	0.3567
	Woodland	1	23.07	1.22	0.2816
	Grassland	1	24.65	0.02	0.8877
	Developed	1	23.01	0.26	0.6140
Richness	***Year***	1	29.32	8.87	**0.0058**
	Farm Type	1	25.39	3.78	0.0630
	Month	3	125.5	14.58	**<.0001**
	Farm Type*Month	3	130.5	0.82	0.4842
	Woodland	1	23.19	2.65	0.1172
	Grassland	1	25.14	0.34	0.5672
	Developed	1	23.11	0.28	0.6006
Diversity	***Year***	1	32.88	7.03	**0.0123**
	Farm Type	1	25.23	6.46	**0.0175**
	Month	3	125.7	14.41	**<.0001**
	Farm Type*Month	3	132.1	0.42	0.7398
	Woodland	1	21.54	1.25	0.2759
	Grassland	1	25.18	1.15	0.2929
	Developed	1	21.45	0.10	0.7577

Table S5. Post hoc comparisons of least squares means comparing bee abundance, richness, and diversity between Div-FV and Mono-SOY farms in central Iowa during each month of the sampling season in 2015 and 2016.

	Month	Farm Type	Farm Type	Estimate	SE	DF	t Value	Pr > |t|
Abundance	***June***	***Div-FV***	***Mono-SOY***	0.09105	12.1488	88.91	0.01	0.9940
	July	***Div-FV***	***Mono-SOY***	-5.9352	10.6245	72.23	-0.56	0.5781
	August	***Div-FV***	***Mono-SOY***	-19.5232	9.5123	52.24	-2.05	**0.0452**
	September	***Div-FV***	***Mono-SOY***	-5.1502	12.2099	101.9	-0.42	0.6741
Richness	***June***	***Div-FV***	***Mono-SOY***	-0.4263	1.3694	95.76	-0.31	0.7562
	July	***Div-FV***	***Mono-SOY***	-1.5084	1.1896	82.11	-1.27	0.2084
	August	***Div-FV***	***Mono-SOY***	-2.6439	1.0526	59.29	-2.51	**0.0148**
	September	***Div-FV***	***Mono-SOY***	-1.9199	1.3845	113.5	-1.39	0.1683
Diversity	***June***	***Div-FV***	***Mono-SOY***	-0.2173	0.2051	105.5	-1.06	0.2919
	July	***Div-FV***	***Mono-SOY***	-0.2377	0.1772	112.4	-1.34	0.1823
	August	***Div-FV***	***Mono-SOY***	-0.1722	0.1515	86.4	-1.14	0.2588
	September	***Div-FV***	***Mono-SOY***	-0.4487	0.2139	138.6	-2.10	**0.0378**

Table S6. Abundance of individual common wild bee species in Div-FV and Mono-SOY farms in central Iowa in 2015 and 2016.

	Effect	Num DF	Den DF	F Value	Pr > F
Agapostemon virescens	***Year***	1	30.8	1.68	0.2047
	Farm Type	1	25.11	0.45	0.5088
	Month	3	125.4	4.87	**0.0031**
	Farm Type*Month	3	131.4	1.50	0.2169
	Woodland	1	22.16	0.75	0.3953
	Grassland	1	24.93	3.83	0.0616
	Developed	1	22.08	0.47	0.5010
Melissodes bimaculata	***Year***	1	146	4.87	**0.0290**
	Farm Type	1	146	3.95	**0.0487**
	Month	3	146	6.07	**0.0006**
	Farm Type*Month	3	146	1.51	0.2137
	Woodland	1	146	0.09	0.7663
	Grassland	1	146	8.70	**0.0037**
	Developed	1	146	0.06	0.8121
Halictus confusus	***Year***	1	29.09	11.83	**0.0018**
	Farm Type	1	25.83	0.24	0.6251
	Month	3	125.8	4.08	**0.0084**
	Farm Type*Month	3	130.2	1.33	0.2684
	Woodland	1	23.93	0.04	0.8392
	Grassland	1	25.57	0.51	0.4800
	Developed	1	23.86	3.47	0.0747
Augochlorella aurata	***Year***	1	31.43	0.75	0.3936
	Farm Type	1	25.89	0.50	0.4860
	Month	3	126	1.46	0.2289
	Farm Type*Month	3	131.8	0.59	0.6226
	Woodland	1	22.98	0.14	0.7150
	Grassland	1	25.69	0.02	0.8950
	Developed	1	22.89	0.46	0.5055

	Effect	Num DF	Den DF	F Value	Pr > F
Agapostemon texanus	***Year***	1	31.03	10.45	**0.0029**
	Farm Type	1	26.46	0.60	0.4443
	Month	3	126.4	1.65	0.1804
	Farm Type*Month	3	131.5	1.23	0.3019
	Woodland	1	23.95	0.32	0.5780
	Grassland	1	26.21	0.00	0.9575
	Developed	1	23.87	0.35	0.5570
Halictus ligatus	***Year***	1	27.76	0.81	0.3751
	Farm Type	1	23.44	3.78	0.0640
	Month	3	123.8	1.25	0.2939
	Farm Type*Month	3	129.6	1.21	0.3093
	Woodland	1	21.09	0.30	0.5871
	Grassland	1	23.22	5.99	**0.0223**
	Developed	1	21.02	0.05	0.8213
Halictus parallelus	***Year***	1	33.57	2.14	0.1525
	Farm Type	1	27.12	1.22	0.2788
	Month	3	127.1	1.00	0.3941
	Farm Type*Month	3	132.8	0.85	0.4712
	Woodland	1	23.81	3.93	0.0592
	Grassland	1	26.95	0.35	0.5607
	Developed	1	23.72	1.76	0.1974
Lasioglossum (Dialictus) sp 1	***Year***	1	30.18	3.09	0.0889
	Farm Type	1	25.31	0.59	0.4513
	Month	3	125.5	3.03	**0.0321**
	Farm Type*Month	3	131.1	0.43	0.7313
	Woodland	1	22.69	6.06	**0.0218**
	Grassland	1	25.08	1.02	0.3221
	Developed	1	22.61	0.96	0.3370

Table S6 Continued.

	Effect	Num DF	Den DF	F Value	Pr > F
Lasioglossum (Dialictus) sp 2	***Year***	1	28.77	0.06	0.8147
	Farm Type	1	24.25	1.22	0.2807
	Month	3	124.6	1.76	0.1587
	Farm Type*Month	3	130.3	1.51	0.2143
	Woodland	1	21.8	2.91	0.1022
	Grassland	1	24.03	0.32	0.5775
	Developed	1	21.73	0.89	0.3554
L. (Dialictus) sp 9	***Year***	1	146	7.74	**0.0061**
	Farm Type	1	146	0.16	0.6937
	Month	3	146	5.40	**0.0015**
	Farm Type*Month	3	146	0.20	0.8987
	Woodland	1	146	7.91	**0.0056**
	Grassland	1	146	0.80	0.3714
	Developed	1	146	0.07	0.7989
L. (Dialictus) sp 14	***Year***	1	27.38	6.18	**0.0193**
	Farm Type	1	24.23	0.72	0.4036
	Month	3	124.4	2.59	0.0557
	Farm Type*Month	3	129.1	0.98	0.4036
	Woodland	1	22.41	4.41	**0.0471**
	Grassland	1	23.99	0.19	0.6684
	Developed	1	22.34	0.27	0.6060
L. (Dialictus) sp 25	***Year***	1	29.43	0.99	0.3274
	Farm Type	1	24.01	0.60	0.4480
	Month	3	124.4	2.88	**0.0387**
	Farm Type*Month	3	130.7	0.61	0.6082
	Woodland	1	21.19	0.41	0.5273
	Grassland	1	23.82	1.59	0.2200
	Developed	1	21.11	0.59	0.4514

	Effect	Num DF	Den DF	F Value	Pr > F
L. (Dialictus) sp 6	***Year***	1	146	2.32	0.1295
	Farm Type	1	146	0.13	0.7178
	Month	3	146	1.54	0.2057
	Farm Type*Month	3	146	1.93	0.1269
	Woodland	1	146	0.89	0.3474
	Grassland	1	146	0.02	0.9014
	Developed	1	146	0.04	0.8398
L. (Dialictus) sp 12	***Year***	1	26.78	1.12	0.2998
	Farm Type	1	21.17	0.75	0.3960
	Month	3	121.6	5.40	**0.0016**
	Farm Type*Month	3	128.9	1.05	0.3711
	Woodland	1	18.37	5.37	**0.0322**
	Grassland	1	21.05	1.01	0.3262
	Developed	1	18.3	0.41	0.5295
L. (Dialictus) sp 18	***Year***	1	146	0.01	0.9259
	Farm Type	1	146	0.19	0.6653
	Month	3	146	0.69	0.5578
	Farm Type*Month	3	146	0.41	0.7471
	Woodland	1	146	0.22	0.6427
	Grassland	1	146	0.94	0.3330
	Developed	1	146	5.08	**0.0258**
L. (Evylaeus) sp 1	***Year***	1	36.31	0.03	0.8637
	Farm Type	1	28.8	1.10	0.3028
	Month	3	128.3	6.48	**0.0004**
	Farm Type*Month	3	133.8	2.11	0.1018
	Woodland	1	25.02	0.54	0.4694
	Grassland	1	28.67	0.07	0.7923
	Developed	1	24.93	0.41	0.5301

Table S7. Post hoc comparisons of least squares means comparing bee abundance of individual species between Div-FV and Mono-SOY farms in central Iowa during each month of the sampling season in 2015 and 2016.

	Month	Farm Type	Farm Type	Estimate	SE	DF	t Value	Pr > |t|
Agapostemon virescens	***June***	***Div-FV***	***Mono-SOY***	1.2666	1.9506	102.9	0.65	0.5176
	July	***Div-FV***	***Mono-SOY***	0.1775	1.6837	99.03	0.11	0.9162
	August	***Div-FV***	***Mono-SOY***	-2.8954	1.4598	72.85	-1.98	**0.0511**
	September	***Div-FV***	***Mono-SOY***	-1.4517	2.0020	129.7	-0.73	0.4697
Agapostemon texanus	***June***	***Div-FV***	***Mono-SOY***	0.6006	0.8631	100.2	0.70	0.4881
	July	***Div-FV***	***Mono-SOY***	-0.3223	0.7477	89.24	-0.43	0.6675
	August	***Div-FV***	***Mono-SOY***	-1.1486	0.6572	65.12	-1.75	0.0852
	September	***Div-FV***	***Mono-SOY***	-0.7177	0.8762	120.3	-0.82	0.4144
Melissodes bimaculata	***June***	***Div-FV***	***Mono-SOY***	-1.3102	1.8950	146	-0.69	0.4904
	July	***Div-FV***	***Mono-SOY***	-0.7652	1.6400	146	-0.47	0.6415
	August	***Div-FV***	***Mono-SOY***	-4.5269	1.3944	146	-3.25	**0.0014**
	September	***Div-FV***	***Mono-SOY***	-0.9337	1.9924	146	-0.47	0.6400
Halictus ligatus	***June***	***Div-FV***	***Mono-SOY***	-2.0284	1.2131	96.32	-1.67	0.0978
	July	***Div-FV***	***Mono-SOY***	-0.8111	1.0501	85.78	-0.77	0.4420
	August	***Div-FV***	***Mono-SOY***	-2.4637	0.9212	61.17	-2.67	**0.0096**
	September	***Div-FV***	***Mono-SOY***	-0.2336	1.2332	118.8	-0.19	0.8501
Halictus confusus	***June***	***Div-FV***	***Mono-SOY***	0.8030	0.7483	90.8	1.07	0.2861
	July	***Div-FV***	***Mono-SOY***	-0.7044	0.6542	74.33	-1.08	0.2851
	August	***Div-FV***	***Mono-SOY***	-0.5861	0.5853	54.06	-1.00	0.3211
	September	***Div-FV***	***Mono-SOY***	-0.4607	0.7523	103.9	-0.61	0.5417
Halictus parallelus	***June***	***Div-FV***	***Mono-SOY***	0.1586	0.4538	79.24	0.35	0.7277
	July	***Div-FV***	***Mono-SOY***	-0.1687	0.5252	105.1	-0.32	0.7486
	August	***Div-FV***	***Mono-SOY***	0.9700	0.6086	106.5	1.59	0.1140
	September	***Div-FV***	***Mono-SOY***	0.5081	0.6268	133.3	0.81	0.4190
Augochlorella aurata	***June***	***Div-FV***	***Mono-SOY***	0.3342	0.3983	103.3	0.84	0.4033
	July	***Div-FV***	***Mono-SOY***	0.1334	0.3439	97.97	0.39	0.6990
	August	***Div-FV***	***Mono-SOY***	-0.1570	0.2989	72.18	-0.53	0.6011
	September	***Div-FV***	***Mono-SOY***	0.3221	0.4078	128.5	0.79	0.4311
Lasioglossum (Dialictus) sp 1	***June***	***Div-FV***	***Mono-SOY***	-4.1450	4.4768	100.5	-0.93	0.3567
	July	***Div-FV***	***Mono-SOY***	0.7377	3.8711	91.89	0.19	0.8493
	August	***Div-FV***	***Mono-SOY***	-3.6402	3.3846	66.79	-1.08	0.2860
	September	***Div-FV***	***Mono-SOY***	-0.8701	4.5622	123.5	-0.19	0.8491

Table S7 Continued.

	Month	Farm Type	Farm Type	Estimate	SE	DF	t Value	Pr > |t|
Lasioglossum (Dialictus) sp 2	***June***	***Div-FV***	***Mono-SOY***	0.8265	1.4448	98.05	0.57	0.5686
	July	***Div-FV***	***Mono-SOY***	-1.0007	1.2502	88.1	-0.80	0.4256
	August	***Div-FV***	***Mono-SOY***	-2.4910	1.0957	63.32	-2.27	**0.0264**
	September	***Div-FV***	***Mono-SOY***	-1.0602	1.4698	120.6	-0.72	0.4721
L. (Dialictus) sp 6	***June***	***Div-FV***	***Mono-SOY***	1.6913	0.8316	146	2.03	**0.0438**
	July	***Div-FV***	***Mono-SOY***	-0.5338	0.7197	146	-0.74	0.4595
	August	***Div-FV***	***Mono-SOY***	-0.5152	0.6119	146	-0.84	0.4012
	September	***Div-FV***	***Mono-SOY***	-0.04009	0.8743	146	-0.05	0.9635
L. (Dialictus) sp 9	***June***	***Div-FV***	***Mono-SOY***	0.3423	0.9149	146	0.37	0.7089
	July	***Div-FV***	***Mono-SOY***	-0.4986	0.7918	146	-0.63	0.5298
	August	***Div-FV***	***Mono-SOY***	-0.3707	0.6732	146	-0.55	0.5827
	September	***Div-FV***	***Mono-SOY***	-0.1952	0.9619	146	-0.20	0.8395
L. (Dialictus) sp 12	***June***	***Div-FV***	***Mono-SOY***	0.9081	1.3687	97.93	0.66	0.5086
	July	***Div-FV***	***Mono-SOY***	0.03030	1.1809	98.18	0.03	0.9796
	August	***Div-FV***	***Mono-SOY***	2.0410	1.0179	70.58	2.01	**0.0488**
	September	***Div-FV***	***Mono-SOY***	-0.4231	1.4130	131.3	-0.30	0.7651
L. (Dialictus) sp 14	***June***	***Div-FV***	***Mono-SOY***	-0.02621	2.2782	88.54	-0.01	0.9908
	July	***Div-FV***	***Mono-SOY***	-2.6585	1.9906	72.06	-1.34	0.1859
	August	***Div-FV***	***Mono-SOY***	-2.7589	1.7797	51.82	-1.55	0.1272
	September	***Div-FV***	***Mono-SOY***	0.4973	2.2910	102.3	0.22	0.8286
L. (Dialictus) sp 18	***June***	***Div-FV***	***Mono-SOY***	-1.6406	1.4932	146	-1.10	0.2737
	July	***Div-FV***	***Mono-SOY***	-0.05712	1.2923	146	-0.04	0.9648
	August	***Div-FV***	***Mono-SOY***	0.1955	1.0988	146	0.18	0.8590
	September	***Div-FV***	***Mono-SOY***	0.2074	1.5700	146	0.13	0.8951
L. (Dialictus) sp 25	***June***	***Div-FV***	***Mono-SOY***	0.3144	0.5309	101	0.59	0.5551
	July	***Div-FV***	***Mono-SOY***	0.002307	0.4583	96.71	0.01	0.9960
	August	***Div-FV***	***Mono-SOY***	0.6286	0.3976	70.36	1.58	0.1184
	September	***Div-FV***	***Mono-SOY***	-0.03306	0.5445	128.5	-0.06	0.9517
L. (Evylaeus) sp 1	***June***	***Div-FV***	***Mono-SOY***	3.9910	1.5767	109.5	2.53	0.0128
	July	***Div-FV***	***Mono-SOY***	0.000745	1.3606	111.9	0.00	0.9996
	August	***Div-FV***	***Mono-SOY***	-0.2495	1.1693	86.82	-0.21	0.8316
	September	***Div-FV***	***Mono-SOY***	-0.2306	1.6334	137.1	-0.14	0.8880

Table S8. Abundance, richness, and diversity of the wild bee community in Div-FV and Mono-SOY farms in central Iowa in 2015 and 2016 with the common agricultural species *Lasioglossum (Dialictus)* sp. 2, *Agapostemon virescens*, *Melissodes bimaculata*, and *Halictus ligatus* removed from the community.

	Effect	Num DF	Den DF	F Value	Pr > F
Abundance	***Year***	1	28.3	6.13	**0.0196**
	Farm Type	1	25.15	0.18	0.6753
	Month	3	125.2	3.91	**0.0104**
	Farm Type*Month	3	129.7	0.34	0.7973
	Woodland	1	23.32	2.25	0.1467
	Developed	1	23.25	1.11	0.3037
	Grassland	1	24.9	1.02	0.3212
Richness	***Year***	1	30.04	16.42	**0.0003**
	Farm Type	1	25.37	1.42	0.2452
	Month	3	125.5	11.93	**<.0001**
	Farm Type*Month	3	131	0.79	0.5034
	Woodland	1	22.83	3.00	0.0968
	Developed	1	25.13	0.30	0.5861
	Grassland	1	22.75	0.23	0.6361
Diversity	***Year***	1	30.05	11.64	**0.0019**
	Farm Type	1	24.48	2.35	0.1379
	Month	3	124.9	13.35	**<.0001**
	Farm Type*Month	3	131	1.43	0.2383
	Woodland	1	21.6	1.67	0.2093
	Developed	1	21.52	0.60	0.4454
	Grassland	1	24.3	0.22	0.6423

Table S9. Comparisons of least square means for abundance, richness, and diversity of the wild bee community across months in Div-FV and Mono-SOY farms in central Iowa in 2015 and 2016 with the common agricultural species *Lasioglossum (Dialictus)* sp. 2, *Agapostemon virescens*, *Melissodes bimaculata*, and *Halictus ligatus* removed from the community.

	Month	Farm Type	Farm Type	Estimate	SE	DF	t Value	Pr > |t|
Abundance	***June***	***Div-FV***	***Mono-SOY***	2.1423	9.0014	89.23	0.24	0.8124
	July	***Div-FV***	***Mono-SOY***	-3.5796	7.8730	72.54	-0.45	0.6507
	August	***Div-FV***	***Mono-SOY***	-6.8115	7.0502	52.56	-0.97	0.3384
	September	***Div-FV***	***Mono-SOY***	-1.5607	9.0459	102.1	-0.17	0.8634
Richness	***June***	***Div-FV***	***Mono-SOY***	0.5078	1.1529	99.76	0.44	0.6606
	July	***Div-FV***	***Mono-SOY***	-0.9857	0.9977	89.95	-0.99	0.3258
	August	***Div-FV***	***Mono-SOY***	-1.1754	0.8743	65.24	-1.34	0.1835
	September	***Div-FV***	***Mono-SOY***	-1.5521	1.1728	121.6	-1.32	0.1882
Diversity	***June***	***Div-FV***	***Mono-SOY***	-0.08664	0.2200	101.9	-0.39	0.6945
	July	***Div-FV***	***Mono-SOY***	-0.1719	0.1899	97.95	-0.91	0.3674
	August	***Div-FV***	***Mono-SOY***	0.01567	0.1647	71.64	0.10	0.9245
	September	***Div-FV***	***Mono-SOY***	-0.5067	0.2258	129.2	-2.24	**0.0265**

Table S10. Type III tests of fixed effects of honey bee colony weight compared between Div-FV and Mono-SOY farms in central Iowa for 2015 and 2016 combined.

Effect	Num DF	Den DF	F Value	Pr > F
Year	1	39.83	29.96	**<.0001**
Date	5	122.7	78.98	**<.0001**
Year*Date	5	122.7	13.16	**<.0001**
Treatment	1	21.03	2.39	0.1366
Year*Treatment	1	42.43	0.16	0.6873
Date*Treatment	5	122.7	4.67	**0.0006**
Year*Date*Treatment	5	122.7	10.40	**<.0001**
Developed	1	20.88	0.01	0.9152
Grassland	1	21.01	0.01	0.9204
Woodland	1	20.81	4.82	**0.0397**

Table S11. Simple effects comparisons of least squares means with Tukey adjustment comparing colony weight between Div-FV and Mono-SOY farm across the season in central Iowa during 2015 and 2016.

Month	*Farm Type*	Estimate	SE	DF	t Value	Pr>|t|	Adj P
24-Jun	***Div-FV Mono-SOY***	2.0144	2.3708	45.7	0.85	0.3999	0.3972
8-Jul	***Div-FV Mono-SOY***	7.2693	2.3708	45.7	3.07	0.0036	**0.0027**
22-Jul	***Div-FV Mono-SOY***	-0.3622	2.3708	45.7	-0.15	0.8792	0.8788
4-Aug	***Div-FV Mono-SOY***	0.03135	2.3708	45.7	0.01	0.9895	0.9895
12-Sep	***Div-FV Mono-SOY***	2.1037	2.4487	50.88	0.86	0.3943	0.3919
12-Oct	***Div-FV Mono-SOY***	6.9137	2.4487	50.88	2.82	0.0068	**0.0055**

Table S12. Type III tests of fixed effects of honey bee colony growth metrics and nutritional state in colonies in Div-FV and Mono-SOY farms in central Iowa during 2016 only.

	Effect	Num DF	Den DF	F Value	Pr > F
Weight (kg)	***Date***	1	10	6.87	**0.0256**
	Treatment	9	522	74.63	**<.0001**
	Date*Treatment	9	522	3.19	**0.0009**
	Woodland	1	10	6.33	**0.0306**
	Grassland	1	10	0.71	0.4191
	Developed	1	10	0.65	0.4383
Brood (cm^2)	***Date***	1	10	3.86	0.0780
	Treatment	9	522	56.75	**<.0001**
	Date*Treatment	9	522	1.30	0.2315
	Woodland	1	10	2.45	0.1486
	Grassland	1	10	0.56	0.4729
	Developed	1	10	0.03	0.8710
Frame Sides of Bees	***Date***	1	10	4.74	**0.0545**
	Treatment	9	520.9	72.04	**<.0001**
	Date*Treatment	9	520.9	1.31	0.2260
	Woodland	1	10	4.28	0.0654
	Grassland	1	10	1.28	0.2835
	Developed	1	10	0.21	0.6573
Percent Lipid	***Date***	3	100.4	8.5	**<.0001**
	Treatment	1	12.97	0.02	0.8778
	Date*Treatment	3	100.4	1.52	0.2138
	Developed	1	16.48	0.03	0.8589
	Grassland	1	10.23	0.67	0.4314
	Woodland	1	13.41	0.03	0.8691

Table S13. Simple effects comparisons of least squares means using Tukey adjustment comparing colony growth metrics and nutritional state between Div-FV and Mono-SOY farms across the season in central Iowa during 2016 only.

	Date	Farm Type		Estimate	SE	DF	t Value	Pr > |t|	Adj P
Weight (kg)	***22-May***	***Div-FV***	***Mono-SOY***	2.7463	2.9255	17.6	0.94	0.3606	0.3483
	7-Jun	***Div-FV***	***Mono-SOY***	3.6563	2.9255	17.6	1.25	0.2277	0.2119
	27-Jun	***Div-FV***	***Mono-SOY***	4.8676	2.9255	17.6	1.66	0.1138	0.0967
	8-Jul	***Div-FV***	***Mono-SOY***	4.7299	2.9255	17.6	1.62	0.1237	0.1065
	22-Jul	***Div-FV***	***Mono-SOY***	6.1985	2.9255	17.6	2.12	0.0486	**0.0346**
	3-Aug	***Div-FV***	***Mono-SOY***	10.1058	2.9255	17.6	3.45	0.0029	**0.0006**
	17-Aug	***Div-FV***	***Mono-SOY***	10.1574	2.9255	17.6	3.47	0.0028	**0.0006**
	31-Aug	***Div-FV***	***Mono-SOY***	7.8898	2.9255	17.6	2.70	0.0149	**0.0072**
	21-Sep	***Div-FV***	***Mono-SOY***	9.8681	2.9255	17.6	3.37	0.0035	**0.0008**
	18-Oct	***Div-FV***	***Mono-SOY***	6.3064	2.9255	17.6	2.16	0.0452	**0.0316**
Brood (cm^2)	***22-May***	***Div-FV***	***Mono-SOY***	216.07	433.33	31.76	0.50	0.6215	0.6182
	7-Jun	***Div-FV***	***Mono-SOY***	376.28	433.33	31.76	0.87	0.3917	0.3856
	27-Jun	***Div-FV***	***Mono-SOY***	452.77	433.33	31.76	1.04	0.3040	0.2966
	8-Jul	***Div-FV***	***Mono-SOY***	278.82	433.33	31.76	0.64	0.5246	0.5202
	22-Jul	***Div-FV***	***Mono-SOY***	880.33	433.33	31.76	2.03	0.0506	**0.0427**
	3-Aug	***Div-FV***	***Mono-SOY***	1113.14	433.33	31.76	2.57	0.0151	**0.0105**
	17-Aug	***Div-FV***	***Mono-SOY***	852.13	433.33	31.76	1.97	0.0580	**0.0498**
	31-Aug	***Div-FV***	***Mono-SOY***	1097.59	433.33	31.76	2.53	0.0165	**0.0116**
	21-Sep	***Div-FV***	***Mono-SOY***	782.35	433.33	31.76	1.81	0.0805	0.0716
	18-Oct	***Div-FV***	***Mono-SOY***	304.59	433.33	31.76	0.70	0.4872	0.4824
Frames Sides of Bees	***22-May***	***Div-FV***	***Mono-SOY***	2.0348	2.7594	23.31	0.74	0.4682	0.4612
	7-Jun	***Div-FV***	***Mono-SOY***	3.0598	2.7594	23.31	1.11	0.2788	0.2680
	27-Jun	***Div-FV***	***Mono-SOY***	3.6973	2.7594	23.31	1.34	0.1932	0.1809
	8-Jul	***Div-FV***	***Mono-SOY***	5.6984	2.7794	23.99	2.05	0.0514	**0.0408**
	22-Jul	***Div-FV***	***Mono-SOY***	4.5098	2.7594	23.31	1.63	0.1156	0.1028
	3-Aug	***Div-FV***	***Mono-SOY***	7.6223	2.7594	23.31	2.76	0.0110	**0.0059**
	17-Aug	***Div-FV***	***Mono-SOY***	7.0598	2.7594	23.31	2.56	0.0175	**0.0108**
	31-Aug	***Div-FV***	***Mono-SOY***	7.1723	2.7594	23.31	2.60	0.0159	**0.0096**
	21-Sep	***Div-FV***	***Mono-SOY***	2.9848	2.7594	23.31	1.08	0.2904	0.2799
	18-Oct	***Div-FV***	***Mono-SOY***	4.7223	2.7594	23.31	1.71	0.1003	0.0876
Percent Lipid	***7-Jun***	***Div-FV***	***Mono-SOY***	-0.0026	0.00314	82.39	-0.84	0.4043	0.4038
	8-Jul	***Div-FV***	***Mono-SOY***	-0.0008	0.00314	82.39	-0.24	0.8099	0.8098
	21-Sep	***Div-FV***	***Mono-SOY***	0.00053	0.00314	82.39	0.17	0.8662	0.8661
	18-Oct	***Div-FV***	***Mono-SOY***	0.00391	0.00198	24.28	1.97	0.0599	**0.0511**

Table S14. Simple effects comparisons of least squares means using Tukey adjustment comparing honey bee nutritional state (lipid content) across sampling dates in central Iowa during 2016.

Date	Date	Estimate	SE	DF	t Value	Adj P
7-June	***8-July***	0.006722	0.002110	100.4	3.19	**0.0102**
7-June	***17- August***	0.007235	0.002110	100.4	3.43	**0.0048**
7-June	***18 October***	0.008668	0.001723	100.4	5.03	**<.0001**
8-July	***17- August***	0.000513	0.002110	100.4	0.24	0.9949
8-July	***18 October***	0.001945	0.001723	100.4	1.13	0.6724
17- August	***18 October***	0.001432	0.001723	100.4	0.83	0.8394