

Appendix B. Statistical results tables from Year-long analysis B1, Seasonal analyses B2, and seasonal contrasts between mixes B3.

TABLE B1. Summary table for year-long analyses for each study region. Models with interactions were compared to reduced models lacking interaction using *F* tests (Gaussian response variables) or likelihood ratio tests (for Poisson response variables). The best model was then used as a starting point for testing effects with marginal *F* tests or likelihood ratio tests as presented in the table.

Florida							
Effect	Num df	Denom df	F	P-value	Likelihood ratio df	X ²	P-value
Floral Area (Gaussian)							
Intercept	1	38	93.683	<0.001	--	--	--
Year	1	38	295.165	<0.001	--	--	--
Mix	5	38	14.17	<0.001	--	--	--
Wild bee Abundance (Gaussian)							
Intercept	1	37	92.609	<0.001	--	--	--
Year	1	37	1.146	0.291	--	--	--
Mix	5	37	3.473	0.011	--	--	--
Floral area	1	37	20.916	<0.001	--	--	--
Wild bee Species Richness (Gaussian)							
Intercept	1	32	188.012	<0.001	--	--	--
Year	1	32	8.64	0.006	--	--	--
Mix	5	32	2.32	0.066	--	--	--
Floral area	1	32	1.152	0.291	--	--	--
Year x Mix	5	32	4.421	0.004	--	--	--
Apis Abundance (Poisson Log-Normal)							
Intercept	--	--	--	--	--	--	--
Year	--	--	--	--	1	15.915	<0.001
Mix	--	--	--	--	5	30.556	<0.001
Floral area	--	--	--	--	1	0.01	0.92
Bombus Abundance (Poisson Log-Normal)							
Intercept	--	--	--	--	--	--	--
Year	--	--	--	--	1	0.174	0.677
Mix	--	--	--	--	5	46.44	<0.001
Floral area	--	--	--	--	1	3.045	0.081
Year x Mix	--	--	--	--	5	27.764	<0.001

Michigan

Effect	Num df	Denom df	F	P-value	Likelihood ratio df	X ²	P-value
Floral Area (Gaussian)							
Intercept	1	27	3481.861	<0.001	--	--	--
Year	1	27	44.92	<0.001	--	--	--
Mix	5	27	15.948	<0.001	--	--	--
Wild bee Abundance (Gaussian)							
Intercept	1	21	36.531	<0.001	--	--	--
Year	1	21	11.718	0.003	--	--	--
Mix	5	21	1.55	0.217	--	--	--
Floral area	1	21	8.853	0.007	--	--	--
Year x Mix	5	21	2.809	0.043	--	--	--
Wild bee Species Richness (Gaussian)							
Intercept	1	16	149.153	<0.001	--	--	--
Year	1	16	0.001	0.979	--	--	--
Mix	5	10	3.134	0.059	--	--	--
Floral area	1	16	6.597	0.021	--	--	--
Apis Abundance (Poisson Log-Normal)							
Intercept	--	--	--	--	--	--	--
Year	--	--	--	--	1	1.77	0.183
Mix	--	--	--	--	5	3.79	0.58
Floral area	--	--	--	--	1	0.639	0.424
Bombus Abundance (Poisson Log-Normal)							
Intercept	--	--	--	--	--	--	--
Year	--	--	--	--	1	<0.001	0.984
Mix	--	--	--	--	5	17.141	0.004
Floral area	--	--	--	--	1	0.233	0.63
Syrphid Abundance (Poisson Log-Normal)							
Intercept	--	--	--	--	--	--	--
Year	--	--	--	--	1	26.227	<0.001
Mix	--	--	--	--	5	7.032	0.218
Floral area	--	--	--	--	1	0.114	0.736

California

Effect	Num df	Denom df	F	P-value	Likelihood ratio df	X ²	P-value
Floral Area (Gaussian)							
Intercept	1	17	6281.609	<0.001	--	--	--
Year	1	17	56.158	<0.001	--	--	--
Mix	5	10	9.784	0.001	--	--	--
Wild bee Abundance (Gaussian)							
Intercept	1	16	110.181	<0.001	--	--	--
Year	1	16	2.222	0.155	--	--	--
Mix	5	10	14.265	<0.001	--	--	--
Floral area	1	16	28.919	<0.001	--	--	--
Wild bee Species Richness (Gaussian)							
Intercept	1	26	523.982	<0.001	--	--	--
Year	1	26	5.027	0.034	--	--	--
Mix	5	26	6.117	0.001	--	--	--
Floral area	1	26	15.58	0.001	--	--	--
Apis Abundance (Poisson Log-Normal)							
Intercept	--	--	--	--	--	--	--
Year	--	--	--	--	1	0.639	0.424
Mix	--	--	--	--	5	24.543	<0.001
Floral area	--	--	--	--	1	5.129	0.024
Year x Mix	--	--	--	--	5	25.491	<0.001
Bombus Abundance (Poisson Log-Normal)							
Intercept	--	--	--	--	--	--	--
Year	--	--	--	--	1	3.161	0.075
Mix	--	--	--	--	5	21.828	0.001
Floral area	--	--	--	--	1	0.064	0.801
Syrphid Abundance (Poisson Log-Normal)							
Intercept	--	--	--	--	--	--	--
Year	--	--	--	--	1	23.319	<0.001
Mix	--	--	--	--	5	1.17	0.948
Floral area	--	--	--	--	1	<0.001	0.992

TABLE B2. Summary table for repeated-measures analysis of seasonal models for each study region. See Figures 2 and Appendix E, E.1, E.2, E.3.

Florida					
Effect	Num df	Denom df	F	P- value	
Year 1					
Floral Area					
Sample round	9	139	221.865	< 0.001	
Sample round x Mix	45	139	4.503	< 0.001	
Wild bee Abundance					
Sample round	9	130	29.689	< 0.001	
Floral area	1	130	8.681	0.004	
Sample round x Mix	45	130	1.747	0.008	
Sample round x Floral area	8	130	1.838	0.076	
Wild bee Species Richness					
Sample round	9	130	29.205	< 0.001	
Floral area	1	130	4.858	0.029	
Sample round x Mix	45	130	1.611	0.02	
Sample round x Floral area	8	130	1.255	0.272	
Year 2					
Floral Area					
Sample round	9	139	35.888	< 0.001	
Sample round x Mix	45	139	2.987	< 0.001	
Wild bee Abundance					
Sample round	9	130	32.654	< 0.001	
Floral area	1	130	8.841	0.004	
Sample round x Mix	45	130	2.919	< 0.001	
Sample round x Floral area	8	130	2.135	0.037	
Wild bee Species Richness					
Sample round	9	130	34.278	< 0.001	
Floral area	1	130	0.333	0.565	
Sample round x Mix	45	130	1.929	0.002	
Sample round x Floral area	8	130	1.708	0.102	

Michigan					
Variable	Num df	Denom df	F	p	
Year 1					
Floral Area					
Sample round	3	19	1533.66	< 0.001	
Sample round x Mix	15	19	16.995	< 0.001	
Wild bee Abundance					
Sample round	3	16	83.563	< 0.001	
Floral area	1	16	0.646	0.433	
Sample round x Mix	15	16	3.624	0.007	
Sample round x Floral area	2	16	2.195	0.144	
Wild bee Species Richness					
Sample round	3	16	16.464	< 0.001	
Floral area	1	16	0.975	0.338	
Sample round x Mix	15	16	1.386	0.262	
Sample round x Floral area	2	16	1.31	0.297	
Year 2					
Floral Area					
Sample round	3	19	613.924	< 0.001	
Sample round x Mix	15	19	11.805	< 0.001	
Wild bee Abundance					
Sample round	3	16	35.911	< 0.001	
Floral area	1	16	7.14	0.017	
Sample round x Mix	15	16	1.56	0.193	
Sample round x Floral area	2	16	2.305	0.132	
Wild bee Species Richness					
Sample round	3	16	21.625	< 0.001	
Floral area	1	16	9.56	0.007	
Sample round x Mix	15	16	2.174	0.067	
Sample round x Floral area	2	16	4.441	0.029	

TABLE B3. Summary table of planned contrasts between different mixes. Contrasts performed for each sample round (seasonal sample) separately. See Figure 3 and Appendix E. Response variables are, B3.1 = floral area, B3.2 = wild bee abundance, B3.3 = wild bee richness. Positive coefficient values indicate greater value for the first term of the contrast, negative coefficient values indicate a greater value for the second term.

Table B3.1 Floral Area

Florida												
Contrast	Sample Round	Year 1					Year 2					
		Value	s.e.	df	t value	p	Sample Round	Value	s.e.	df	t value	p
Control vs. All mixes												
	1	0.306	0.229	139	1.333	0.185	1	0.574	0.168	139	3.406	0.001
	2	0.198	0.229	139	0.863	0.39	2	0.612	0.222	139	2.755	0.007
	3	0.334	0.229	139	1.459	0.147	3	0.68	0.235	139	2.896	0.004
	4	0.366	0.229	139	1.596	0.113	4	0.632	0.296	139	2.134	0.035
	5	0.646	0.229	139	2.816	0.006	5	0.776	0.171	139	4.539	< 0.001
	6	1.066	0.229	139	4.651	< 0.001	6	0.712	0.127	139	5.615	< 0.001
	7	0.812	0.229	139	3.54	0.001	7	0.325	0.084	139	3.882	< 0.001
	8	1.638	0.229	139	7.145	< 0.001	8	0.505	0.361	139	1.4	0.164
	9	1.559	0.229	139	6.8	< 0.001	9	-0.413	0.203	139	-2.035	0.044
Mixed Ann-Per vs. Other mixes												
	1	-0.094	0.122	139	-0.778	0.438	1	-0.124	0.206	139	-0.599	0.55
	2	-0.024	0.122	139	-0.196	0.845	2	-0.246	0.272	139	-0.905	0.367
	3	-0.058	0.122	139	-0.48	0.632	3	-0.29	0.287	139	-1.008	0.315
	4	-0.085	0.122	139	-0.698	0.486	4	-0.19	0.363	139	-0.523	0.602
	5	-0.155	0.122	139	-1.278	0.203	5	-0.163	0.209	139	-0.777	0.438
	6	-0.118	0.122	139	-0.97	0.334	6	-0.227	0.155	139	-1.461	0.146
	7	-0.122	0.122	139	-1.002	0.318	7	-0.076	0.102	139	-0.745	0.457
	8	-0.139	0.122	139	-1.143	0.255	8	0.502	0.442	139	1.137	0.258
	9	-0.258	0.122	139	-2.125	0.035	9	-0.564	0.248	139	-2.272	0.025
Annual mixes vs. Perennial mixes												
	1	1.44	0.415	139	3.474	0.001	1	0.537	0.461	139	1.164	0.247
	2	-0.237	0.415	139	-0.571	0.569	2	0.816	0.608	139	1.342	0.182
	3	-0.535	0.415	139	-1.29	0.199	3	0.713	0.643	139	1.11	0.269
	4	0.014	0.415	139	0.033	0.974	4	0.884	0.811	139	1.09	0.278
	5	0.732	0.415	139	1.767	0.079	5	0.85	0.468	139	1.814	0.072
	6	0.844	0.415	139	2.036	0.044	6	1.186	0.347	139	3.417	0.001
	7	0.697	0.415	139	1.682	0.095	7	-0.328	0.229	139	-1.432	0.154
	8	0.686	0.415	139	1.654	0.1	8	-0.8	0.988	139	-0.81	0.42
	9	1.499	0.415	139	3.616	< 0.001	9	1.513	0.555	139	2.723	0.007
Annual Basic vs. Annual Diverse												
	1	0.213	0.31	139	0.686	0.494	1	-0.36	0.653	139	-0.551	0.582
	2	0.402	0.31	139	1.299	0.196	2	-0.172	0.86	139	-0.2	0.842
	3	0.012	0.31	139	0.038	0.969	3	-0.006	0.909	139	-0.007	0.995
	4	-0.02	0.31	139	-0.065	0.948	4	-0.081	1.147	139	-0.071	0.944
	5	-0.197	0.31	139	-0.635	0.526	5	-0.034	0.662	139	-0.051	0.959
	6	-0.16	0.31	139	-0.517	0.606	6	-0.069	0.491	139	-0.141	0.888
	7	-0.039	0.31	139	-0.126	0.9	7	0.132	0.324	139	0.407	0.685
	8	0.138	0.31	139	0.445	0.657	8	-0.826	1.397	139	-0.591	0.555
	9	0.099	0.31	139	0.32	0.749	9	0.714	0.786	139	0.908	0.365
Perennial Basic vs. Perennial Diverse												
	1	1.048	0.769	139	1.363	0.175	1	1.358	0.653	139	2.081	0.039
	2	-0.184	0.769	139	-0.24	0.811	2	1.191	0.86	139	1.386	0.168
	3	-0.19	0.769	139	-0.247	0.805	3	-1.369	0.909	139	-1.506	0.134
	4	-0.134	0.769	139	-0.174	0.862	4	0.865	1.147	139	0.754	0.452
	5	-0.226	0.769	139	-0.294	0.769	5	0.176	0.662	139	0.265	0.791
	6	0.281	0.769	139	0.366	0.715	6	0.15	0.491	139	0.306	0.76
	7	1.724	0.769	139	2.241	0.027	7	0.099	0.324	139	0.306	0.76
	8	2.592	0.769	139	3.37	0.001	8	1.162	1.397	139	0.832	0.407
	9	1.327	0.769	139	1.725	0.087	9	-2.042	0.786	139	-2.6	0.01

Michigan

Contrast	Sample Round	Year 1					Year 2					
		Value	s.e.	df	t value	p	Sample Round	Value	s.e.	df	t value	p
Control vs. All mixes	1	0.267	0.067	19	3.955	0.001	1	0.407	0.049	19	8.221	< 0.001
	2	0.464	0.067	19	6.87	< 0.001	2	0.248	0.168	19	1.476	0.156
	3	0.495	0.067	19	7.341	< 0.001	3	0.147	0.203	19	0.726	0.477
Mixed Ann-Per vs. Other mixes	1	0.023	0.089	19	0.254	0.803	1	-0.178	0.061	19	-2.933	0.009
	2	-0.026	0.089	19	-0.287	0.777	2	0.015	0.206	19	0.072	0.943
	3	-0.009	0.089	19	-0.097	0.924	3	-0.053	0.249	19	-0.213	0.833
Annual mixes vs. Perennial mixes	1	0.041	0.189	19	0.218	0.83	1	-0.839	0.136	19	-6.192	< 0.001
	2	-0.784	0.189	19	-4.158	0.001	2	-0.893	0.46	19	-1.941	0.067
	3	-0.87	0.189	19	-4.61	< 0.001	3	0.293	0.556	19	0.527	0.604
Annual Basic vs. Annual Diverse	1	0.9	0.354	19	2.545	0.02	1	-0.095	0.192	19	-0.498	0.624
	2	-0.243	0.354	19	-0.686	0.501	2	0.268	0.651	19	0.411	0.685
	3	0.259	0.354	19	0.733	0.472	3	0.147	0.786	19	0.187	0.854
Perennial Basic vs. Perennial Diverse	1	0.472	0.131	19	3.594	0.002	1	0.038	0.192	19	0.196	0.846
	2	-0.017	0.131	19	-0.127	0.9	2	0.047	0.651	19	0.073	0.943
	3	0.039	0.131	19	0.297	0.77	3	0.99	0.786	19	1.259	0.223

California

Contrast	Sample Round	Year 1					Year 2					
		Value	s.e.	df	t value	p	Sample Round	Value	s.e.	df	t value	p
Control vs. All mixes												
	1	2.07	0.138	55	15.03	< 0.001	1	-0.599	0.526	55	-1.14	0.259
	2	0.386	0.138	55	2.802	0.007	2	0.596	0.204	55	2.921	0.005
	3	-0.253	0.138	55	-1.835	0.072	3	0.182	0.085	55	2.137	0.037
	4	-0.188	0.138	55	-1.369	0.177	4	-0.046	0.37	55	-0.125	0.901
	5	0.101	0.138	55	0.735	0.465	5	-0.049	0.382	55	-0.129	0.898
	6	0.064	0.138	55	0.467	0.642	6	0.011	0.413	55	0.028	0.978
Mixed Ann-Per vs. Other mixes												
	1	0.045	0.17	55	0.264	0.793	1	-0.074	0.644	55	-0.115	0.909
	2	0.006	0.17	55	0.036	0.971	2	-0.002	0.25	55	-0.008	0.994
	3	-0.728	0.17	55	-4.294	< 0.001	3	0.104	0.104	55	1.002	0.321
	4	-0.588	0.17	55	-3.468	0.001	4	-0.584	0.453	55	-1.29	0.202
	5	-0.347	0.17	55	-2.046	0.046	5	-0.536	0.468	55	-1.145	0.257
	6	-0.358	0.17	55	-2.109	0.04	6	-0.337	0.506	55	-0.667	0.508
Annual mixes vs. Perennial mixes												
	1	-0.204	0.686	55	-0.298	0.767	1	0.791	1.44	55	0.549	0.585
	2	-0.567	0.686	55	-0.827	0.412	2	0.214	0.558	55	0.383	0.703
	3	-4.14	0.686	55	-6.037	< 0.001	3	0.026	0.233	55	0.111	0.912
	4	-3.832	0.686	55	-5.587	< 0.001	4	-3.219	1.013	55	-3.179	0.002
	5	-2.468	0.686	55	-3.598	0.001	5	-3.056	1.047	55	-2.92	0.005
	6	-1.826	0.686	55	-2.663	0.01	6	-1.939	1.131	55	-1.715	0.092
Annual Basic vs. Annual Diverse												
	1	-0.155	1.35	55	-0.115	0.909	1	2.969	2.037	55	1.457	0.151
	2	0.295	1.35	55	0.219	0.828	2	-0.139	0.79	55	-0.176	0.861
	3	4.528	1.35	55	3.354	0.001	3	0.172	0.329	55	0.523	0.603
	4	2.567	1.35	55	1.901	0.062	4	0.9	1.432	55	0.629	0.532
	5	4.113	1.35	55	3.047	0.004	5	2.308	1.48	55	1.559	0.125
	6	3.779	1.35	55	2.799	0.007	6	0.868	1.599	55	0.543	0.589
Perennial Basic vs. Perennial Diverse												
	1	-0.093	0.245	55	-0.382	0.704	1	1.27	2.037	55	0.624	0.535
	2	0.009	0.245	55	0.035	0.972	2	0.154	0.79	55	0.195	0.846
	3	-0.147	0.245	55	-0.602	0.55	3	-0.143	0.329	55	-0.435	0.665
	4	0.201	0.245	55	0.824	0.414	4	-0.131	1.432	55	-0.092	0.927
	5	0.46	0.245	55	1.88	0.065	5	0.102	1.48	55	0.069	0.945
	6	0.642	0.245	55	2.626	0.011	6	0.083	1.599	55	0.052	0.959

Table B3.2 Wild bee abundance

Florida												
Contrast	Sample Round	Year 1					Year 2					
		Value	s.e.	df	t value	p	Sample Round	Value	s.e.	df	t value	p
Control vs. All mixes												
	1	0.119	0.083	130	1.434	0.154	1	0.241	0.075	130	3.23	0.002
	2	0.244	0.083	130	2.94	0.004	2	0.307	0.07	130	4.366	< 0.001
	3	0.142	0.103	130	1.381	0.17	3	0.242	0.072	130	3.352	0.001
	4	0.164	0.107	130	1.523	0.13	4	0.199	0.07	130	2.825	0.005
	5	-0.08	0.136	130	-0.591	0.555	5	0.349	0.085	130	4.102	< 0.001
	6	0.388	0.12	130	3.23	0.002	6	0.614	0.182	130	3.37	0.001
	7	-0.037	0.091	130	-0.402	0.688	7	0.054	0.074	130	0.727	0.469
	8	-0.124	0.155	130	-0.8	0.425	8	0.056	0.068	130	0.833	0.406
	9	-0.087	0.154	130	-0.568	0.571	9	0.166	0.07	130	2.391	0.018
Mixed Ann-Per vs. Other mixes												
	1	-0.079	0.095	130	-0.827	0.41	1	-0.132	0.079	130	-1.671	0.097
	2	-0.071	0.095	130	-0.746	0.457	2	-0.231	0.08	130	-2.897	0.004
	3	-0.091	0.096	130	-0.953	0.342	3	-0.079	0.08	130	-0.986	0.326
	4	-0.03	0.096	130	-0.307	0.759	4	-0.157	0.079	130	-1.973	0.051
	5	-0.181	0.099	130	-1.839	0.068	5	-0.168	0.08	130	-2.107	0.037
	6	-0.21	0.095	130	-2.2	0.03	6	-0.057	0.096	130	-0.598	0.551
	7	-0.094	0.095	130	-0.986	0.326	7	-0.104	0.079	130	-1.307	0.193
	8	-0.047	0.095	130	-0.492	0.623	8	-0.033	0.082	130	-0.404	0.687
	9	-0.091	0.097	130	-0.931	0.354	9	-0.229	0.087	130	-2.638	0.009
Annual mixes vs. Perennial mixes												
	1	0.195	0.254	130	0.768	0.444	1	0.53	0.18	130	2.948	0.004
	2	0.065	0.215	130	0.304	0.761	2	0.458	0.18	130	2.54	0.012
	3	0.398	0.238	130	1.674	0.096	3	0.482	0.18	130	2.686	0.008
	4	0.648	0.212	130	3.055	0.003	4	0.559	0.181	130	3.094	0.002
	5	0.652	0.247	130	2.643	0.009	5	0.74	0.187	130	3.968	< 0.001
	6	0.94	0.224	130	4.194	< 0.001	6	0.613	0.334	130	1.833	0.069
	7	0.438	0.216	130	2.031	0.044	7	0.43	0.18	130	2.39	0.018
	8	-0.036	0.219	130	-0.162	0.872	8	-0.029	0.179	130	-0.162	0.872
	9	0.124	0.247	130	0.502	0.617	9	0.817	0.201	130	4.06	< 0.001
Annual Basic vs. Annual Diverse												
	1	-0.482	0.3	130	-1.603	0.111	1	-0.091	0.25	130	-0.363	0.717
	2	-0.388	0.306	130	-1.27	0.206	2	-0.099	0.249	130	-0.398	0.691
	3	0.04	0.3	130	0.134	0.893	3	-0.286	0.249	130	-1.146	0.254
	4	-0.076	0.3	130	-0.253	0.801	4	-0.104	0.249	130	-0.419	0.676
	5	0.017	0.302	130	0.057	0.955	5	0.017	0.249	130	0.067	0.947
	6	-0.096	0.3	130	-0.321	0.749	6	-0.01	0.25	130	-0.038	0.969
	7	-0.106	0.3	130	-0.355	0.723	7	-0.285	0.25	130	-1.142	0.256
	8	-0.08	0.3	130	-0.268	0.789	8	-0.072	0.252	130	-0.286	0.775
	9	0.003	0.3	130	0.008	0.993	9	-0.02	0.253	130	-0.081	0.936
Perennial Basic vs. Perennial Diverse												
	1	0.228	0.317	130	0.721	0.472	1	0.211	0.265	130	0.797	0.427
	2	0.18	0.301	130	0.597	0.552	2	0.172	0.255	130	0.674	0.501
	3	0.349	0.302	130	1.155	0.25	3	0.159	0.258	130	0.616	0.539
	4	-0.115	0.301	130	-0.382	0.703	4	0.093	0.252	130	0.369	0.713
	5	0.197	0.302	130	0.653	0.515	5	-0.023	0.25	130	-0.092	0.927
	6	0.26	0.301	130	0.863	0.39	6	-0.119	0.252	130	-0.472	0.638
	7	-0.333	0.316	130	-1.053	0.294	7	-0.06	0.25	130	-0.239	0.812
	8	0.384	0.368	130	1.044	0.298	8	0.996	0.254	130	3.923	< 0.001
	9	-0.363	0.32	130	-1.132	0.26	9	0.12	0.282	130	0.426	0.671

Michigan

Contrast	Year 1						Year 2					
	Sample Round	Value	s.e.	df	t value	p	Sample Round	Value	s.e.	df	t value	p
Control vs. All mixes	1	0.212	0.072	16	2.92	0.01	1	-0.249	0.204	16	-1.221	0.24
	2	0.168	0.095	16	1.776	0.095	2	0.105	0.097	16	1.081	0.296
	3	0.502	0.14	16	3.585	0.002	3	0.074	0.091	16	0.807	0.432
Mixed Ann-Per vs. Other mixes	1	0.085	0.062	16	1.374	0.189	1	0.185	0.136	16	1.364	0.191
	2	-0.121	0.062	16	-1.957	0.068	2	-0.179	0.11	16	-1.632	0.122
	3	0.086	0.062	16	1.389	0.184	3	0.064	0.11	16	0.585	0.567
Annual mixes vs. Perennial mixes	1	0.108	0.138	16	0.782	0.446	1	0.716	0.449	16	1.593	0.131
	2	-0.157	0.194	16	-0.813	0.428	2	-0.907	0.279	16	-3.254	0.005
	3	-1.131	0.267	16	-4.234	0.001	3	-0.413	0.248	16	-1.67	0.114
Annual Basic vs. Annual Diverse	1	0.231	0.262	16	0.881	0.391	1	0.103	0.349	16	0.296	0.771
	2	0.26	0.199	16	1.303	0.211	2	-0.098	0.349	16	-0.28	0.783
	3	-0.302	0.206	16	-1.462	0.163	3	-0.089	0.347	16	-0.257	0.801
Perennial Basic vs. Perennial Diverse	1	0.096	0.215	16	0.447	0.661	1	-0.021	0.347	16	-0.059	0.954
	2	-0.145	0.195	16	-0.746	0.466	2	0.132	0.347	16	0.381	0.708
	3	-0.277	0.195	16	-1.42	0.175	3	0.036	0.368	16	0.099	0.923

California

Contrast	Year 1						Year 2					
	Sample Round	Value	s.e.	df	t value	p	Sample Round	Value	s.e.	df	t value	p
Control vs. All mixes												
	1	0.157	0.615	49	0.255	0.8	1	-0.112	0.075	49	-1.496	0.141
	2	0.343	0.092	49	3.737	< 0.001	2	0.115	0.11	49	1.053	0.298
	3	0.293	0.093	49	3.149	0.003	3	0.135	0.074	49	1.827	0.074
	4	0.186	0.071	49	2.634	0.011	4	0.094	0.07	49	1.345	0.185
	5	0.207	0.07	49	2.948	0.005	5	0.108	0.07	49	1.537	0.131
	6	0.199	0.07	49	2.843	0.006	6	0.148	0.07	49	2.117	0.039
Mixed Ann-Per vs. Other mixes												
	1	-0.05	0.087	49	-0.574	0.569	1	-0.086	0.086	49	-1	0.322
	2	0.025	0.086	49	0.287	0.775	2	0.006	0.086	49	0.065	0.949
	3	0.144	0.197	49	0.732	0.468	3	-0.006	0.087	49	-0.073	0.942
	4	-0.136	0.093	49	-1.467	0.149	4	-0.215	0.092	49	-2.35	0.023
	5	-0.136	0.089	49	-1.518	0.135	5	-0.074	0.09	49	-0.828	0.412
	6	-0.136	0.089	49	-1.533	0.132	6	-0.104	0.087	49	-1.189	0.24
Annual mixes vs. Perennial mixes												
	1	0.144	0.201	49	0.72	0.475	1	0.191	0.195	49	0.981	0.331
	2	0.253	0.21	49	1.204	0.234	2	-0.616	0.194	49	-3.175	0.003
	3	0.824	1.028	49	0.802	0.427	3	0.012	0.192	49	0.06	0.952
	4	-1.117	0.301	49	-3.708	0.001	4	-1.029	0.262	49	-3.923	< 0.001
	5	-0.634	0.266	49	-2.382	0.021	5	-0.529	0.241	49	-2.195	0.033
	6	-0.61	0.224	49	-2.728	0.009	6	-0.442	0.213	49	-2.074	0.043
Annual Basic vs. Annual Diverse												
	1	-0.499	0.274	49	-1.818	0.075	1	0.296	0.302	49	0.98	0.332
	2	0.116	0.274	49	0.424	0.673	2	0.005	0.272	49	0.018	0.986
	3	-2.468	1.138	49	-2.169	0.035	3	-0.195	0.272	49	-0.717	0.477
	4	1.386	0.312	49	4.44	< 0.001	4	-0.294	0.276	49	-1.067	0.291
	5	0.015	0.411	49	0.038	0.97	5	-0.119	0.293	49	-0.408	0.685
	6	-0.498	0.361	49	-1.379	0.174	6	-0.375	0.274	49	-1.366	0.178
Perennial Basic vs. Perennial Diverse												
	1	-0.076	0.272	49	-0.281	0.78	1	0.152	0.277	49	0.547	0.587
	2	0.167	0.271	49	0.616	0.541	2	-0.068	0.272	49	-0.249	0.804
	3	-0.107	0.273	49	-0.391	0.698	3	0.12	0.272	49	0.443	0.66
	4	-0.166	0.271	49	-0.612	0.543	4	-0.141	0.271	49	-0.518	0.607
	5	-0.119	0.273	49	-0.438	0.663	5	-0.205	0.271	49	-0.756	0.453
	6	-0.112	0.274	49	-0.411	0.683	6	-0.337	0.271	49	-1.241	0.221

Table B3.3 Wild bee species richness

Florida												
Contrast	Sample Round	Year 1					Year 2					
		Value	s.e.	df	t value	p	Sample Round	Value	s.e.	df	t value	p
Control vs. All mixes												
	1	-0.03	0.038	130	-0.729	0.467	1	0.039	0.043	130	0.892	0.374
	2	-0.01	0.039	130	-0.347	0.729	2	0.044	0.041	130	1.08	0.282
	3	0.006	0.048	130	0.117	0.907	3	0.044	0.042	130	1.055	0.293
	4	-0.03	0.051	130	-0.538	0.591	4	0.015	0.041	130	0.376	0.707
	5	0.095	0.066	130	1.438	0.153	5	0.095	0.05	130	1.896	0.06
	6	0.037	0.058	130	0.63	0.53	6	0.112	0.109	130	1.028	0.306
	7	-0.04	0.043	130	-0.818	0.415	7	0.044	0.043	130	1.013	0.313
	8	-0.08	0.074	130	-1.029	0.306	8	-0.03	0.039	130	-0.7	0.486
	9	-0.05	0.071	130	-0.76	0.449	9	0.035	0.04	130	0.872	0.385
Mixed Ann-Per vs. Other mixes												
	1	0.034	0.044	130	0.767	0.444	1	-0.08	0.046	130	-1.77	0.079
	2	-0.09	0.044	130	-2.077	0.04	2	-0.09	0.046	130	-1.95	0.053
	3	0.004	0.044	130	0.092	0.927	3	-0.07	0.046	130	-1.45	0.149
	4	-0.01	0.044	130	-0.114	0.909	4	-0.08	0.046	130	-1.72	0.088
	5	-0.09	0.046	130	-1.917	0.057	5	-0.1	0.046	130	-2.06	0.041
	6	-0.08	0.044	130	-1.723	0.087	6	-0.08	0.056	130	-1.37	0.174
	7	-0.01	0.044	130	-0.126	0.9	7	-0.11	0.046	130	-2.32	0.022
	8	-0.02	0.044	130	-0.398	0.691	8	-0.09	0.047	130	-1.88	0.062
	9	0.035	0.045	130	0.782	0.436	9	-0.13	0.05	130	-2.58	0.011
Annual mixes vs. Perennial mixes												
	1	-0.15	0.119	130	-1.296	0.197	1	0.322	0.104	130	3.106	0.002
	2	-0.07	0.099	130	-0.707	0.481	2	0.332	0.104	130	3.188	0.002
	3	0.037	0.11	130	0.335	0.738	3	0.202	0.104	130	1.949	0.053
	4	-0.02	0.097	130	-0.249	0.804	4	0.308	0.104	130	2.952	0.004
	5	0.407	0.116	130	3.509	0.001	5	0.467	0.108	130	4.322	< 0.001
	6	0.202	0.104	130	1.945	0.054	6	0.313	0.199	130	1.573	0.118
	7	-0	0.099	130	-0.022	0.983	7	0.182	0.104	130	1.751	0.082
	8	-0.07	0.101	130	-0.72	0.473	8	0.096	0.104	130	0.929	0.354
	9	-0.01	0.114	130	-0.11	0.912	9	0.512	0.117	130	4.381	< 0.001
Annual Basic vs. Annual Diverse												
	1	-0.04	0.138	130	-0.256	0.799	1	-0.22	0.144	130	-1.53	0.129
	2	0.002	0.141	130	0.014	0.989	2	0.005	0.144	130	0.033	0.974
	3	-0.2	0.137	130	-1.459	0.147	3	-0.14	0.144	130	-0.95	0.342
	4	-0.16	0.138	130	-1.141	0.256	4	0.119	0.144	130	0.825	0.411
	5	-0.01	0.139	130	-0.048	0.962	5	0.052	0.144	130	0.363	0.717
	6	-0.2	0.138	130	-1.428	0.156	6	-0.03	0.144	130	-0.2	0.846
	7	-0.35	0.137	130	-2.541	0.012	7	0.06	0.144	130	0.419	0.676
	8	-0.29	0.138	130	-2.124	0.036	8	-0.17	0.145	130	-1.19	0.237
	9	-0.18	0.138	130	-1.299	0.196	9	-0.07	0.146	130	-0.48	0.635
Perennial Basic vs. Perennial Diverse												
	1	-0.06	0.146	130	-0.399	0.691	1	-0.2	0.153	130	-1.28	0.204
	2	0.035	0.138	130	0.254	0.8	2	-0.12	0.147	130	-0.81	0.421
	3	-0.01	0.139	130	-0.071	0.944	3	-0.07	0.149	130	-0.45	0.657
	4	0.383	0.138	130	2.77	0.006	4	0.11	0.146	130	0.757	0.451
	5	-0.11	0.139	130	-0.772	0.442	5	-0.08	0.144	130	-0.56	0.58
	6	-0.25	0.138	130	-1.798	0.074	6	-0.15	0.145	130	-1.06	0.292
	7	-0.48	0.146	130	-3.257	0.001	7	-0.08	0.144	130	-0.55	0.582
	8	0.031	0.172	130	0.183	0.855	8	0.239	0.147	130	1.633	0.105
	9	-0.21	0.147	130	-1.424	0.157	9	0.053	0.164	130	0.326	0.745

Michigan

Contrast	Year 1						Year 2					
	Sample Round	Value	s.e.	df	t value	p	Sample Round	Value	s.e.	df	t value	p
Control vs. All mixes	1	0.197	0.106	16	1.861	0.081	1	-0.21	0.147	16	-1.44	0.17
	2	0.098	0.136	16	0.719	0.482	2	0.18	0.07	16	2.571	0.021
	3	0.256	0.207	16	1.24	0.233	3	0.048	0.066	16	0.733	0.474
Mixed Ann-Per vs. Other mixes	1	0.039	0.089	16	0.433	0.671	1	0.088	0.098	16	0.9	0.382
	2	-0.11	0.089	16	-1.181	0.255	2	-0.15	0.079	16	-1.94	0.07
	3	0.046	0.089	16	0.512	0.616	3	0.1	0.079	16	1.263	0.225
Annual mixes vs. Perennial mixes	1	0.24	0.2	16	1.204	0.246	1	0.204	0.324	16	0.631	0.537
	2	-0.1	0.278	16	-0.363	0.721	2	-0.81	0.203	16	-4.01	0.001
	3	-0.84	0.393	16	-2.135	0.049	3	0.145	0.178	16	0.817	0.426
Annual Basic vs. Annual Diverse	1	0.192	0.382	16	0.503	0.622	1	-0.07	0.251	16	-0.27	0.791
	2	0.484	0.288	16	1.682	0.112	2	0.116	0.251	16	0.463	0.65
	3	-0.18	0.299	16	-0.584	0.567	3	-0.06	0.249	16	-0.25	0.806
Perennial Basic vs. Perennial Diverse	1	0.201	0.313	16	0.644	0.528	1	0.309	0.249	16	1.239	0.233
	2	0.225	0.282	16	0.799	0.436	2	-0.09	0.249	16	-0.36	0.723
	3	-0.22	0.282	16	-0.79	0.441	3	0.203	0.265	16	0.768	0.453

California

Contrast	Year 1						Year 2					
	Sample Round	Value	s.e.	df	t value	p	Sample Round	Value	s.e.	df	t value	p
Control vs. All mixes												
	1	0.106	0.357	49	0.298	0.767	1	0.019	0.042	49	0.44	0.662
	2	0.103	0.054	49	1.925	0.06	2	0.089	0.065	49	1.37	0.177
	3	0.08	0.055	49	1.459	0.151	3	0.06	0.042	49	1.427	0.16
	4	0.028	0.043	49	0.653	0.517	4	-0.03	0.039	49	-0.66	0.513
	5	0.095	0.043	49	2.214	0.032	5	-0.04	0.039	49	-0.93	0.355
	6	0.034	0.043	49	0.802	0.426	6	-0.01	0.039	49	-0.31	0.761
Mixed Ann-Per vs. Other mixes												
	1	-0.12	0.053	49	-2.258	0.028	1	-0.08	0.048	49	-1.59	0.118
	2	0.005	0.052	49	0.098	0.922	2	0.025	0.048	49	0.515	0.609
	3	-0.04	0.112	49	-0.353	0.726	3	-0.01	0.049	49	-0.2	0.841
	4	-0.08	0.056	49	-1.408	0.165	4	-0.1	0.052	49	-1.93	0.059
	5	-0.04	0.054	49	-0.654	0.516	5	0.004	0.05	49	0.086	0.932
	6	-0.14	0.054	49	-2.525	0.015	6	-0.1	0.049	49	-1.95	0.057
Annual mixes vs. Perennial mixes												
	1	0.202	0.122	49	1.656	0.104	1	0.033	0.109	49	0.304	0.763
	2	0.115	0.126	49	0.914	0.365	2	-0.2	0.109	49	-1.83	0.074
	3	-0.5	0.578	49	-0.871	0.388	3	-0.13	0.107	49	-1.2	0.236
	4	-1.01	0.175	49	-5.792	< 0.001	4	-0.41	0.152	49	-2.67	0.01
	5	-0.34	0.16	49	-2.151	0.036	5	-0.18	0.137	49	-1.29	0.202
	6	-0.18	0.136	49	-1.291	0.203	6	-0.05	0.12	49	-0.44	0.665
Annual Basic vs. Annual Diverse												
	1	-0.19	0.167	49	-1.158	0.252	1	-0.17	0.171	49	-1.01	0.315
	2	0.113	0.167	49	0.677	0.502	2	-0.02	0.152	49	-0.11	0.914
	3	0.156	0.641	49	0.244	0.809	3	-0.05	0.153	49	-0.34	0.738
	4	0.944	0.187	49	5.056	< 0.001	4	-0.16	0.155	49	-1.01	0.317
	5	0.026	0.246	49	0.106	0.916	5	-0.16	0.165	49	-0.99	0.327
	6	-0.31	0.221	49	-1.384	0.172	6	-0.18	0.154	49	-1.19	0.24
Perennial Basic vs. Perennial Diverse												
	1	0	0.166	49	0	1	1	0.234	0.156	49	1.504	0.139
	2	0.092	0.165	49	0.56	0.578	2	0.1	0.152	49	0.654	0.516
	3	0.128	0.166	49	0.77	0.445	3	0.16	0.152	49	1.052	0.298
	4	-0.01	0.165	49	-0.081	0.936	4	0.067	0.152	49	0.441	0.661
	5	-0.04	0.166	49	-0.217	0.829	5	0.043	0.152	49	0.282	0.779
	6	-0.19	0.167	49	-1.116	0.27	6	-0.05	0.152	49	-0.34	0.736

