

**Table 1. Mean  $\pm$  SEM invertebrates in corn plots interseeded with cover crops and in corn monocultures summed across sampled corn stages in the corn foliage, on the soil surface, and in the soil column.** Data are presented this way to give relative abundances of invertebrate taxa throughout the growing season. The plant stages sampled were: soil surface and corn foliage: V4, V8 and anthesis; Subterranean: V2, V4, V8 and anthesis. Individual and grouped taxa included in the table represent those comprising  $\geq$  0.5% of the community abundance in their respective habitats and differed significantly between treatments. Collembola and mite abundances were excluded when determining commonly collected epigeic and subterranean taxa due to these species being a disproportionately large percentage of the total soil-dwelling community abundance. Results of repeated measures-ANOVAs ( $\alpha = 0.05$ ) are presented for treatment effects with significant differences denoted with an asterisk

Habitat	Taxa	Mean ± SEM Interseeded corn	Mean ± SEM Monoculture corn	Rm-ANOVA
	Taxa	Per m2	Per m2	Rm-ANOVA
Soil surface	Invertebrates (total)	476.83 ± 80.49	198.00 ± 32.00	F <sub>1,71</sub> = 10.36, P < 0.01*
	Predators (total)	207.91 ± 23.63	93.41 ± 13.19	F <sub>1,71</sub> = 17.90, P < 0.01*
	Herbivores (total)	113.33 ± 31.01	14.58 ± 4.54	F <sub>1,71</sub> = 9.93, P < 0.01*
	Detritivores (total)	145.67 ± 40.12	84.42 ± 19.82	F <sub>1,71</sub> = 1.87, P = 0.19
	Araneae (total)	66.25 ± 13.22	28.00 ± 6.11	F <sub>1,71</sub> = 6.90, P = 0.02*
	Coleoptera			
	Carabidae (total)	76.17 ± 19.19	29.17 ± 6.25	F <sub>1,71</sub> = 5.42, P = 0.03*
	Hemiptera			
	Miridae (total)	22.92 ± 8.04	2.83 ± 1.22	F <sub>1,71</sub> = 6.10, P = 0.03*
	Coleoptera			
	Staphylinidae (total)	5.17 ± 1.06	2.58 ± 0.60	F <sub>1,71</sub> = 4.53, P = 0.05*
	Coleoptera			
	Tetragnathidae sp.	2.50 ± 0.57	1.08 ± 0.34	F <sub>1,71</sub> = 4.57, P = 0.04*
	Hemiptera			
	Nabidae	6.42 ± 1.80	1.83 ± 0.77	F <sub>1,71</sub> = 5.50, P = 0.03*
	<i>Nabis americanoferus</i>			
Coleoptera				
Coccinellidae (larval)	4.50 ± 0.88	0.75 ± 0.25	F <sub>1,71</sub> = 16.69, P < 0.01*	
Coleoptera				
Carabidae	14.33 ± 2.49	6.25 ± 1.03	F <sub>1,71</sub> = 8.89, P = 0.01*	
<i>Bembidion</i> sp.				
Hemiptera				
Miridae	16.50 ± 5.53	1.08 ± 0.47	F <sub>1,71</sub> = 7.72, P = 0.01*	

<i>Lygus</i> sp.			
Hemiptera			
Aphididae	75.00 ± 32.28	6.42 ± 4.35	F <sub>1,71</sub> = 4.43, P = 0.05*
<i>Ropalosiphum padi</i>			

	Taxa	Per m2	Per m2	Rm-ANOVA
<b>Subterranean</b>	Invertebrates (total)	55905.85 ± 14908.85	40858.27 ± 9681.05	F <sub>1,95</sub> = 0.72, P = 0.41
	Predators (total)	2334.27 ± 469.24	1797.39 ± 245.26	F <sub>1,95</sub> = 1.03, P = 0.32
	Herbivores (total)	360.75 ± 88.59	246.16 ± 55.75	F <sub>1,95</sub> = 1.20, P = 0.29
	Detritivores (total)	51491.95 ± 14204.70	37066.14 ± 9169.67	F <sub>1,95</sub> = 0.73, P = 0.40
	Araneae			
	Lycosidae sp.	118.84 ± 39.07	29.71 ± 13.24	F <sub>1,95</sub> = 4.67, P = 0.04*
	Coleoptera			
	Cryptophagidae sp.	50.93 ± 15.36	14.85 ± 4.91	F <sub>1,95</sub> = 5.01, P = 0.04*
	Beetle larva 15 <sup>‡</sup>	6.37 ± 6.37	48.81 ± 19.69	F <sub>1,95</sub> = 4.21, P = 0.05*
	Thysanoptera			
Thripidae sp.	25.47 ± 10.86	4.24 ± 2.86	F <sub>1,95</sub> = 5.77, P = 0.03*	
	Taxa	Per plant	Per plant	Rm-ANOVA
<b>Corn foliage</b>	Invertebrates (total)	13.06 ± 2.71	16.73 ± 4.24	F <sub>1,71</sub> = 0.53, P = 0.47
	Predators (total)	3.83 ± 0.64	3.84 ± 0.74	F <sub>1,71</sub> = 0.00, P = 0.99
	Herbivores (total)	8.65 ± 2.05	12.51 ± 3.54	F <sub>1,71</sub> = 0.89, P = 0.36

<sup>‡</sup>Footnote:

Unidentified “Beetle larva 15” is approximately 3.5 mm long and possesses three pairs of thoracic legs, prognathous mouthparts (reduced) and two distinct posterior dorsally-pointing hook-like urogomphi

