

Table 3. Effects of tillage and rye cover crops on insect pests and natural enemies

Tillage	Insect pests								Beneficials									
	PLH ^a		TPB ^b		Aphid		Thrip		Striped thrips		Ladybeetles		Spiders		Pentatomids		Parasitoids	
	2010	2011	2010	2011	2010	2011	2010	2011	2010	2011	2010	2011	2010	2011	2010	2011	2010	2011
-----sum of all observed-----																		
Cover Crop Main Effect																		
None	0	61.2	2.3 a	4.9	5.6 a	16.3	11.0	51.2	10.1	4.9	4.4	0.4 a	1.5	1.4 a	0.2	0.1	4.6	1.5
Rye	0	58.6	9.5 b	4.1	13.8 b	17.0	18.5	46.7	21.2	5.0	1.0	1.1 b	0.7	0.5 b	4.2	0.1	2.2	0.9
Tillage x Cover																		
Conventional tillage																		
None	0.0	77.5 ^A	3.5	4.0	7.5	12.0	8.3	54.8	14.3	6.5 ab	3.0 a	0.5	0.8	1.5	0.0	0.0	3.3 ab	1.5 a
Rye	0.0	63.8	10.0	5.8	14.3	16.0	24.0	45.0	15.0	2.8 b	2.0 ab	0.8	1.0	0.8	1.0	0.0	4.3 a	0.0 b
Strip tillage																		
None	0.0	44.8 ^B	0.7	5.8	3.0	20.5	13.7	47.5	6.0	3.3 ab	5.7 a	0.3	2.3	1.3	0.3	0.3	6.0 a	1.5 a
Rye	0.0	53.3	9.0	2.5	13.3	18.0	13.0	48.3	27.3	7.3 a	0.0 b	1.5	0.3	0.3	7.3	0.3	0.0 b	1.8 a
ANOVA																		
Tillage (T)	NS	0.0097	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0300
Cover (C)	NS	NS	0.0110	NS	0.0677	NS	NS	NS	NS	NS	0.0229	0.0293	NS	0.0107	NS	NS	NS	NS
T x C	NS	0.0793	NS	NS	NS	NS	NS	NS	NS	0.0375	0.0283	NS	NS	NS	NS	NS	0.0131	0.0315

^aPotato leaf hopper

^bTarnished plant bug