

Parrella Lab IR-4 Leafminer Trial Results, 2014

This table shows the outcome of our 2014 IR-4 evaluation of labeled and experimental materials for control of American serpentine leafminer, *Liriomyza trifolii*. The trial began June 18 and ended August 8; the results are shown by week. Data was analyzed using ANOVA and means separation was done using Tukey's test. Shaded cells indicate that the treatment received a pesticide application the day following the count, except for week 3 when applications were made five days after the count.

	Mean number of mines per leaf by week							
	Precount	Week 1	Week 2	Week 3 ¹	Week 4	Week 5	Week 6 ²	Week 7
Statistics by week	df=15,95	df=15,95	df=15,95	df=15,94	df=15,95	df=15,95	df=15,29.08	df=3,23
Trt and PR number	F=0.9060 p=0.5606	F=4.2030 p=0.0001	F=3.8978 p=0.0001	F=26.285 p=0.0001	F=18.4399 p=0.0001	F=6.4483 p=0.0001	F=62.7278 p=0.0001	F=20.3255 p=0.0001
Control	4.38± 0.57	14.96±2.69 abcd	8.5±1.15 a	6.21±0.98 abc	3.88±0.55 abc	7.42±1.11 ab	8.29±1.49 a	9.58±1.26 a
Avid/Abamectin PR#30074	5.04±0.46	14.79±2.03 abcd	3.83±0.82 abc	3.75±0.63 cd	2.58±0.55 bc	2.46±0.71 bcd	4.46±0.94 abc	
AzaGuard/Azadirachtin PR#32144	5.04±0.42	11.67±2.1 abcd	4.38±1.19 abc	2.25±0.35 de	2.17±0.58 cd	3.08±0.97 bcd	4.63±1.08 ab	
Distance/Pyriproxifen PR#32043	4.83±1.09	16.21±2.68 abc	4.46±1.0 abc	8.21±1.3 ab	4.79±0.81 abc	3.92±0.9 abcd	8.83±0.79 a	
GF-2860 WDG <i>Spinetoram+sulfoxaflor</i> PR#32044	4.54±0.77	17.25±2.29 ab	6.5±0.82 abc	7.13±0.51 abc	5.88±1.54 abc	6.5±0.68 ab	8.29±0.94 a	
Hachi-Hachi 21oz <i>Tolfenpyrad</i> PR#32045	4.29±0.38	16.08±1.15 abcd	7.13±0.78 ab	6.75±0.68 abc	6.63±0.92 a	8.5±1.51 a	6.71±1.11 a	
Hachi-Hachi 32oz <i>Tolfenpyrad</i> PR#32045	4.54±0.96	11.88±3.19 abcd	7.17±0.49 ab	6.17±0.76 abc	6.04±0.68 ab	6.71±1.53 ab	7.54±0.43 a	
IKI-3106 22oz <i>Cyclaniliprole</i> PR#32046	5.67±0.65	14.08±1.66 abcd	4.38±1.0 abc	4.33±0.76 bcd	6.29±0.72 ab	4.54±0.81 abcd	8.13±1.68 a	
IKI-3106 28oz <i>Cyclaniliprole</i> PR#32046	5.63±0.57	17.5±1.94 ab	7.67±1.55 ab	5.67±0.75 abc	5.83±0.52 abc	2.79±0.99 bcd	6.83±0.44 a	
Kontos once <i>Spirotetramat</i> PR#29123	3.54±0.39	8.63±2.3 abcd	8.63±1.96 a	9.75±0.74 a	4.25±0.54 abc	7.08±1.74 ab	6.29±0.58 a	
Kontos twice <i>Spirotetramat</i> PR#29123	3.96±0.52	16.42±3.22 abc	5.0±0.76 abc	5.71±0.56 abc	4.96±0.72 abc	5.38±0.95 abc	6.67±0.54 a	
Mainspring 4oz <i>Cyantraniliprole</i> PR#32047	4.08±0.44	6.92±2.09 bcd	2.29±1.24 bc	1.13±0.64 ef	0.42±0.23 e	1.0±0.85 cd	0.13±0.06 bc	3.21±1.17 b
Mainspring 8oz <i>Cyantraniliprole</i> PR#32047	4.0±0.72	5.71±1.46 cd	0.79±0.19 c	0.33±0.08 f	0.04±0.04 e	0.29±0.25 d	0.96±0.51 c	0.75±0.29 b
Mainspring 12oz <i>Cyantraniliprole</i> PR#32047	4.83±0.69	5.25±1.32 d	3.0±1.08 abc	0.75±0.17 ef	0.46±0.19 de	0.17±0.12 cd	0.17±0.12 c	0.88±0.58 b
SP3009 1.6oz <i>Pyrifluquinazon</i> PR#32048	5.17±0.46	17.63±1.44 ab	6.46±1.91 abc	5.58±0.65 abc	5.21±0.96 abc	2.92±0.48 bcd	7.83±0.81 a	.
SP3009 3.2oz <i>Pyrifluquinazon</i> PR#32048	4.58±0.32	18.21±1.81 a	7.58±1.36 ab	6.50±0.43 abc	4.92±1.09 abc	5.0±1.21 abcd	7.58±0.68 a	.

¹Data was log₁₀ transformed to meet the assumptions of ANOVA. Raw data is reported.

²Welch ANOVA was performed as the data could not be transformed to meet the assumptions of ANOVA.