

Table 14. Evaluation of garlic oil with Nu-Film P adjuvant as a repellent to swede midge: Garlic Oil Spray Trials at **Canticle**, Allegany, NY (Cattaraugus Co.), 2016.

	% SM infestation	% unmarketable	SM Damage Rating Scale (0-4) <sup>1</sup>	
			All Plants	Damaged Only
<b>Garlic Oil Trial 1 – Red Russian kale</b>				
9 Apps: May 27, Jun 3, 19, 16, 24, Jul 2, 7, 15, 20, sprayed to run-off				
Field Behind Barn: Spring Planting (Evaluated Aug 12)				
Trap Code SP BB mix G1 (Max Trap Catch: 7 SM/trap/day on Aug 5)				
Untreated	90%			
1% Essential Garlic Oil + Nu-Film P 0.25% v/v	40%			
Data was collected from samples of 10 plants per treatment from one rep.				
<b>Garlic Oil Trial 2 - Kohlrabi</b>				
4 Apps: Jul 2, 7, 15, 20, sprayed to run-off				
Front Corner Field: Summer Planting (Evaluated Aug 2)				
Trap Code Sum FC mix G2 (Max Trap Catch: 30 SM/trap/day on Aug 17)				
Untreated	45.7	11.3	0.86	2.00
1% Essential Garlic Oil + Nu-Film P 0.25% v/v	46.0	6.7	0.68	1.89
<i>P Value (α=0.05)</i>	<i>0.9912 (NS<sup>2</sup>)</i>	<i>0.6617 (NS)</i>	<i>0.5706 (NS)</i>	<i>0.7921 (NS)</i>
Data was collected from 3 reps of 5-13 plants per treatment.				
<b>Garlic Oil Trial 3 – Red Russian kale</b>				
6 Apps: Sep 2, 9, 16, 23, 30 and Oct 7, sprayed to run-off				
Middle Field: Fall Planting (Evaluated Oct 12)				
Trap Code FP MF mix G3 (Max Trap Catch: 5 SM/trap/day on Sep 10)				
Untreated	45.0	0.0	0.47	1.06
1% Essential Garlic Oil + Nu-Film P 0.25% v/v	32.5	0.0	0.35	1.08
<i>P Value (α=0.05)</i>	<i>0.2872 (NS)</i>	--	<i>0.2966 (NS)</i>	<i>0.7367 (NS)</i>
Data was collected from 4 reps of 10 plants per treatment.				

<sup>1</sup>**Swede Midge Damage Rating (Scale 0-4): 0** = no damage; **1** = minor damage; **2** = moderate damage, reduces yield/quality but still marketable; **3** = major damage, head formation but unmarketable; **4** = severe damage, blind head

<sup>2</sup>NS: Not significant, according to Fisher's Protected LSD test ( $\alpha = 0.05$ ),  $p > 0.05$ .