

Table 15. Relative swede midge preference for broccoli, Red Russian kale and Bok Choy to determine if a more preferred brassica (e.g. red Russian kale) could be used as a trap crop to protect a less preferred brassica (e.g. broccoli): On-farm small-plot study, Quest Produce, Almond, NY, 2016.

Crop Type	At Broccoli Maturity (Jul 26) (80 DAP rep 1 & 2; 53 DAP reps 3 & 4)				Economic Analysis (/100 ft of bed = 200 plants) <sup>3</sup>	
	% SM Infestation	% Unmarketable (SM Scale 3 or 4)	Mean SM Damage Rating (Scale 0-4) <sup>1</sup>		Marketable Yield (lb)	Value (\$)
			All Plants	Damaged Only		
Broccoli monoculture (row 1 & 2)	60.0 b <sup>2</sup>	43.1 bc	1.7 c	2.8 b	66.0	\$198
Red Russian Kale monoculture (row 1 & 2)	93.8 a	58.3 ab	2.5 ab	2.8 b		
Bok Choy monoculture (row 1 & 2)	0.0 d	0.0 ab	0.0 e	--		
Broccoli (row 1)	33.7 c	30.3 c	0.9 d	3.2 a	82.9	\$249
Red Russian Kale (row 2)	95.3 a	65.8 a	2.7 a	2.8 b		
Broccoli (row 1)	40.5 bc	23.0 cd	1.1 d	2.3 b	90.0	\$270
Bok Choy (row 2)	0.0 d	0.0 d	0.0 e	--		
Bok Choy (row 1)	0.0 d	0.0 d	0.0 e	--		
Red Russian Kale (row 2)	86.1 a	58.3 ab	2.3 b	2.8 b		
<b>P value (<math>\alpha=0.05</math>)</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0227</b>	--	--

<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>Numbers in a column followed by the same letter are not significantly different, Fisher's Protected LSD test ( $\alpha = 0.05$ ).

<sup>3</sup>Estimated yield per 100 feet of bed: 200 plants/100 ft with 2 rows per bed and 1 foot plant spacing. Assume 0.6 lb/head for SM damage rating of 0-1, and 0.4 lb/head for SM damage rating of 2. SM damage ratings of 3-4 are unmarketable. Assume \$3/lb.