

Table 1. Neonicotinoid residues in soil samples collected in 2015, 2016 and 2017. The detection level was 5ppb for imidacloprid, 10ppb for thiamethoxam and 15ppb for clothianidin. nd = not detected. Trace indicates that the insecticide was present but at levels below the quantification threshold. Pre-planting data from Queenstown is not included for 2015 soybean or 2017 maize as no insecticides were detected. For 2015 and 2017, the two values indicate data from the two pooled replicate samples, while in 2016, all the replicates were pooled into a single sample.

Site	Treatment	Insecticide Residue (ppb)		
		Imidacloprid	Thiamethoxam	Clothianidin
Full-season Soybean: Pre-plant - 5/12/2015 and 5/21/2015				
Beltsville	Control	8, trace	nd, nd	trace, nd
	Fungicide	6, 7	nd, nd	nd, nd
	Imidacloprid	trace, trace	nd, nd	nd, nd
	Thiamethoxam	7, 6	nd, nd	trace, nd
Full-season Soybean: Post-plant - 6/3/2015 and 6/12/2015				
Beltsville	Control	10, trace	nd, nd	trace, nd
	Fungicide	trace, 8	nd, nd	nd, nd
	Imidacloprid	8, trace	nd, trace	nd, nd
	Thiamethoxam	trace, 8	nd, trace	trace, nd
Queenstown	Control	nd, nd	nd, nd	nd, nd
	Fungicide	nd, nd	nd, nd	nd, nd
	Imidacloprid	trace, nd	nd, nd	nd, nd
	Thiamethoxam	nd, nd	16, nd	nd, nd
Winter Wheat: Dormancy - 3/2/2016 and 3/7/2016				
Beltsville	Control	trace	nd	nd
	Fungicide	trace	nd	nd
	Imidacloprid	7	nd	nd
	Thiamethoxam	trace	nd	nd
Queenstown	Control	nd	nd	nd
	Fungicide	nd	nd	nd
	Imidacloprid	trace	nd	nd
	Thiamethoxam	nd	nd	nd
Maize: Pre-plant - 4/10/2017 and 4/12/2017				
Beltsville	Control	7, nd	nd, nd	nd, nd
	Fungicide	nd, nd	nd, nd	nd, nd
	Imidacloprid	8,9	nd, nd	nd, nd
	Thiamethoxam	trace, nd	nd, nd	nd, nd
Maize: Post-plant - 5/30/2017 and 5/31/2017				
Beltsville	Control	7, nd	nd, nd	nd, nd
	Fungicide	trace, nd	nd, nd	nd, nd
	Imidacloprid	11, 35	nd, nd	nd, nd
	Thiamethoxam	12, trace	17, nd	23, nd
Queenstwn	Control	nd, nd	nd, nd	nd, nd
	Fungicide	nd, nd	nd, nd	nd, nd
	Imidacloprid	14, 26	nd, nd	nd, nd
	Thiamethoxam	nd, nd	15, 16	nd, nd