

Table S1: Study sites description

Location	Field type	Site #	GPS Coordinates	Date sampled	Crops grown	Cultivar grown	Pesticides used	Tillage system
Alumenda	Commercial	Site 1	16°22'37.7"S 34°54'25.5"E	7 Oct 2016	sugarcane	MN1	Acetamiprid, (acetamiprid 200g/L)	Conventional using tractor ploughs
		Site 2	16°23'24.6"S 34°51'45.2"E					
Nchalo	Commercial	Site 3	16°16'17.2"S 34°53'09.8"E	15 Oct 2016	Sugarcane	MN1	Acetamiprid, (acetamiprid 200g/L)	Conventional using tractor ploughs
		Site 4	16°15'52.6"S 34°54'19.8"E					
Kasinthula	Outgrower	Site 5	16°04'44.6"S 34°48'46.4"E	22 Dec 2016	Sugarcane	MN1, N32	Cypermethrin 200 EC (200g/L cypermethrin) Acetamiprid, (acetamiprid 200g/L)	Conventional using tractor ploughs
		Site 6	16°05'07.6"S 34°47'39.9"E					
Phata	Outgrower	Site 7	16°07'18.9"S 34°51'56.7"E	21 Dec 2016	Sugarcane	N32	No information	Conventional using tractor ploughs
		Site 8	16°07'30.3"S 34°51'03.6"E					
Maseya	Traditional	Site 9	16°05'36.9"S 34°51'18.5"E	8 Oct 2016	Sugarcane, maize, onions, tomato.	Mixture of local cultivars such as Msenjere, Chiutsa and Mkono wa Mwana	Dimethiote 40EC (400g/L dimethoate) Cypermethrin 200 EC(200g/L cypermethrin) Aceta 20 SL (200g/L acetamiprid) Marshal 250 EC (25% v/v carbosulfan)	Conventional using hoes
		Site 10	16°05'37.2"S 34°51'18.0"E					
Mitole	Traditional	Site 11	16°02'12.5"S 34°49'12.5"E	16 Oct 2016	Sugarcane, maize, onions, tomato	Mixture of local cultivars	Dimethiote 40EC (400g/L dimethoate)	Conventional using hoes
		Site 12	16°02'11.9"S 34°49'08.2"E					

						such as Msenjere, Chiutsa and Mkono wa Mwana	Aceta 20 SL (200g/L acetamiprid) Cypermethrin 200 EC(200g/L cypermethrin) Marshal 250 EC (25% v/v carbosulfan)	
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