

Table 1. Comparison of pesticide detections in capping and foundation samples from honey bee colonies.

Pesticide	Class#	Cappings		Foundation*		Cappings		Foundation*		Cappings		Foundation*	
		Detects		High (ppb)		Low (ppb)		Median		Mean^			
Coumaphos	OP	9 (90%)	20 (95.2%)	103	14300	2.3	1	31.5	1350	35.9	3315.1		
Fluvalinate	PYR	8 (80%)	21 (100.%)	215	10120	11.1	2	103.4	455	107.0	2006.1		
Chlorpyrifos	OP	5 (50%)	17 (81.%)	5.1	110	2.3	1.4	2.6	10	3.2	22.2		
Coumaphos oxon	OP	3 (30%)	7 (53.8%)	6.6	102	5	6.5	5.3	27.3	5.6	36		
Heptachlor	INS	3 (30%)	N.R.	12.9	N.R.	8.3	N.R.	9.1	N.R.	10.1	N.R.		
Bifenthrin	PYR	2 (20%)	N.R.	12.8	N.R.	7.5	N.R.	10.2	N.R.	10.2	N.R.		
Dicofol	OC	2 (20%)	1 (4.8%)	6.3	2.3	4.6	2.3	5.5	2.3	5.5	2.3		
Thymol		2 (20%)	N.R.	2150	N.R.	248	N.R.	1199.0	N.R.	1199.0	N.R.		
Chlorothalonil	FUNG	1 (10%)	6 (28.6%)	493	60	493	1.3	493.0	11.4	493.0	18.2		
Fenpyroximate	INS	1 (10%)	N.R.	9.2	N.R.	9.2	N.R.	9.2	N.R.	9.2	N.R.		
Paradichlorobenzene	OC	1 (10%)	1 (33.3%)	196	6.9	196	6.9	196.0	6.9	196.0	6.9		
THPI	FUNG	1 (10%)	N.R.	338	N.R.	338	N.R.	338.0	N.R.	338.0	N.R.		
Trifluralin	HERB	1 (10%)	2 (18.2%)	4.9	36	4.9	2.2	4.9	19.1	4.9	19.1		
Endosulfan I	CYC	---	8 (38.1%)	---	11	---	1.2	---	2.4	---	3.3		
Cypermethrin	PYR	---	5 (23.8%)	---	131	---	6.5	---	8.3	---	51.6		
Endosulfan II	CYC	---	5 (23.8%)	---	4.7	---	1.1	---	1.9	---	2.1		
Cyfluthrin	PYR	---	4 (19.%)	---	14	---	6.9	---	7.4	---	8.9		
Esfenvalerate	PYR	---	4 (19.%)	---	19	---	1.1	---	2.8	---	6.4		
Pendimethalin	HERB	---	2 (18.2%)	---	7.2	---	7.1	---	7.2	---	7.2		
Allethrin	PYR	---	2 (15.4%)	---	139	---	9.5	---	74.3	---	74.3		
Fluridone	S HERB	---	2 (15.4%)	---	6.6	---	5.7	---	6.2	---	6.2		
Vinclozolin	FUNG	---	2 (9.5%)	---	1.7	---	1.2	---	1.5	---	1.5		
Atrazine	S HERB	---	1 (7.7%)	---	31	---	31	---	31	---	31		
Norflurazon	S HERB	---	1 (7.7%)	---	38.1	---	38.1	---	38.1	---	38.1		
Parathion methyl	OP	---	1 (7.7%)	---	3.8	---	3.8	---	3.8	---	3.8		
Tebuthiuron	S HERB	---	1 (7.7%)	---	5.8	---	5.8	---	5.8	---	5.8		
Thiabendazole	S FUNG	---	1 (7.7%)	---	76	---	76	---	76	---	76		
Endosulfan sulfate	CYC	---	1 (4.8%)	---	1.6	---	1.6	---	1.6	---	1.6		
Fenpropathrin	PYR	---	1 (4.8%)	---	25	---	25	---	25	---	25		
Methidathion	OP	---	1 (4.8%)	---	14	---	14	---	14	---	14		
Phosmet	OP	---	1 (4.8%)	---	2.9	---	2.9	---	2.9	---	2.9		
Trifloxystrobin	PS FUNG	---	1 (4.8%)	---	3.5	---	3.5	---	3.5	---	3.5		

* Foundation sample data from Table 5, Mullin CA, Frazier M, Frazier JL, Ashcraft S, Simonds R, et al. (2010) High Levels of Miticides and Agrochemicals in North American Apiaries: Implications for Honey Bee Health. PLoS ONE 5(3): e9754. doi:10.1371/journal.pone.0009754.t005

Class: CYC = cyclodiene, FUNG = fungicide, HERB = herbicide, INS = misc. insecticide, OC = organochlorine, OP = organophosphate, PS = partial systemic, PYR = pyrethroid, S = systemic.

N.R. = not reported, ppb = parts per billion

^ Mean for detections > LOD.