

Raw data used in the manuscript "Agrochemical synergism imposes higher risk to Neotropical bees than to honey bees" - by Tomé et al.

***A. mellifera* - Deltamethrin**

Concentration (g/mL)	colony	total	dead
control	1	20	0
control	2	10	0
control	3	20	0
control	4	20	1
control	5	20	1
control	6	20	0
0.025	1	17	1
0.025	2	10	0
0.025	3	20	1
0.025	4	20	0
0.025	5	20	0
0.025	6	20	0
0.075	1	20	1
0.075	2	10	1
0.075	3	20	0
0.075	4	20	1
0.075	5	20	0
0.075	6	20	1
0.25	1	20	1
0.25	2	10	2
0.25	3	20	9
0.25	4	20	3
0.25	5	20	4
0.25	6	20	1
0.75	1	20	20
0.75	2	10	2
0.75	3	20	8
0.75	4	20	15
0.75	5	20	2
0.75	6	20	13
1.25	1	15	13
1.25	2	10	6
1.25	3	20	14
1.25	4	20	16
1.25	5	20	9
1.25	6	20	11
2.50	1	20	19
2.50	2	10	10
2.50	3	20	19
2.50	4	20	18
2.50	5	20	15
2.50	6	20	20

*P. helleri* - Deltamethrin

Concentração (g/mL)	colony	total	dead
control	1	20	0
control	2	20	2
control	3	20	0
control	4	20	1
control	5	20	8
control	6	20	1
0.000125	1	20	1
0.000125	2	20	1
0.000125	3	20	4
0.000125	4	20	5
0.000125	5	20	7
0.000125	6	20	3
0.00025	1	20	9
0.00025	2	20	20
0.00025	3	20	11
0.00025	4	20	3
0.00025	5	20	19
0.00025	6	20	19
0.0005	1	20	3
0.0005	2	20	5
0.0005	3	20	1
0.0005	4	20	5
0.0005	5	20	15
0.0005	6	20	5
0.00125	1	20	1
0.00125	2	20	1
0.00125	3	20	4
0.00125	4	20	5
0.00125	5	20	7
0.00125	6	20	3
0.0025	1	20	9
0.0025	2	20	20
0.0025	3	20	11
0.0025	4	20	3
0.0025	5	20	19
0.0025	6	20	20
0.0175	1	20	20
0.0175	2	20	19
0.0175	3	27	27
0.0175	4	21	21
0.0175	5	20	20
0.0175	6	20	20

*A. mellifera* -Imidacloprid

Concentration (g/mL)	Colony	total	dead
control	1	20	1
control	2	20	0
control	3	20	0
control	4	20	2
control	5	20	2
control	6	20	0
0.0000021	1	20	3
0.0000021	2	20	2
0.0000021	3	20	2
0.0000021	4	20	0
0.0000021	5	20	0
0.0000021	6	20	0
0.000021	1	20	6
0.000021	2	20	3
0.000021	3	20	3
0.000021	4	20	0
0.000021	5	20	0
0.000021	6	20	0
0.00021	1	20	1
0.00021	2	20	5
0.00021	3	20	7
0.00021	4	20	0
0.00021	5	20	0
0.00021	6	20	0
0.0021	1	20	10
0.0021	2	20	8
0.0021	3	20	8
0.0021	4	20	16
0.0021	5	20	10
0.0021	6	20	9
0.007	1	20	16
0.007	2	20	16
0.007	3	20	10
0.007	4	20	17
0.007	5	20	16
0.007	6	20	16
0.021	1	20	20
0.021	2	20	20
0.021	3	20	20
0.021	4	20	19
0.021	5	20	20
0.021	6	20	20
0.049	1	20	20
0.049	2	20	20
0.049	3	20	19
0.049	4	20	20

<b>0.049</b>	<b>5</b>	20	20
<b>0.049</b>	<b>6</b>	20	20
<b>0.07</b>	<b>1</b>	20	20
<b>0.07</b>	<b>2</b>	20	20
<b>0.07</b>	<b>3</b>	20	20
<b>0.07</b>	<b>4</b>	20	20
<b>0.07</b>	<b>5</b>	20	20
<b>0.07</b>	<b>6</b>	20	20
<b>0.21</b>	<b>1</b>	20	20
<b>0.21</b>	<b>2</b>	20	20
<b>0.21</b>	<b>3</b>	20	20
<b>0.21</b>	<b>4</b>	20	20
<b>0.21</b>	<b>5</b>	20	20
<b>0.21</b>	<b>6</b>	20	20

***P. helleri* -Imidacloprid**

Concentration (g/mL)	Colony	total	dead
<b>control</b>	<b>1</b>	20	0
<b>control</b>	<b>2</b>	20	2
<b>control</b>	<b>3</b>	20	0
<b>control</b>	<b>4</b>	20	1
<b>control</b>	<b>5</b>	20	8
<b>control</b>	<b>6</b>	20	1
0.00000021	1	20	2
0.00000021	2	20	2
0.00000021	3	20	1
0.00000021	4	20	3
0.00000021	5	20	10
0.00000021	6	20	1
0.000007	1	20	1
0.000007	2	20	2
0.000007	3	20	3
0.000007	4	20	0
0.000007	5	20	17
0.000007	6	20	2
0.000021	1	20	9
0.000021	2	20	3
0.000021	3	20	0
0.000021	4	20	8
0.000021	5	20	14
0.000021	6	20	2
0.00007	1	20	2
0.00007	2	20	3
0.00007	3	20	3
0.00007	4	20	13

0.00007	5	20	11
0.00007	6	20	9
0.00021	1	20	8
0.00021	2	20	7
0.00021	3	20	3
0.00021	4	20	16
0.00021	5	20	12
0.00021	6	20	6
0.0007	1	20	13
0.0007	2	20	6
0.0007	3	20	10
0.0007	4	20	18
0.0007	5	20	14
0.0007	6	20	13
0.0021	1	20	12
0.0021	2	20	14
0.0021	3	20	14
0.0021	4	20	13
0.0021	5	20	15
0.0021	6	20	15

### *A. mellifera* -Cerconil

Concentration (g/mL)	colony	total	dead
control	1	20	4
control	2	20	0
control	3	20	1
control	4	20	0
control	5	20	0
control	6	20	1
0.00014	1	20	3
0.00014	2	20	2
0.00014	3	20	6
0.00014	4	20	1
0.00014	5	20	1
0.00014	6	20	2
0.00042	1	20	8
0.00042	2	20	4
0.00042	3	20	5
0.00042	4	20	6
0.00042	5	20	3
0.00042	6	20	7
0.0014	1	20	15
0.0014	2	20	6
0.0014	3	21	8
0.0014	4	20	14
0.0014	5	20	5
0.0014	6	20	9

<b>0.0042</b>	<b>1</b>	20	15
<b>0.0042</b>	<b>2</b>	20	16
<b>0.0042</b>	<b>3</b>	20	18
<b>0.0042</b>	<b>4</b>	20	17
<b>0.0042</b>	<b>5</b>	20	16
<b>0.0042</b>	<b>6</b>	20	11
<b>0.014</b>	<b>1</b>	20	20
<b>0.014</b>	<b>2</b>	20	20
<b>0.014</b>	<b>3</b>	20	18
<b>0.014</b>	<b>4</b>	20	17
<b>0.014</b>	<b>5</b>	20	18
<b>0.014</b>	<b>6</b>	20	12

***P. helleri* -Cerconil**

Concentration (g/mL)	colony	total	dead
control	1	20	0
control	2	20	2
control	3	20	7
control	4	20	2
control	5	20	3
control	6	20	0
<b>0.0000014</b>	<b>1</b>	22	0
<b>0.0000014</b>	<b>2</b>	21	1
<b>0.0000014</b>	<b>3</b>	20	4
<b>0.0000014</b>	<b>4</b>	20	3
<b>0.0000014</b>	<b>5</b>	20	0
<b>0.0000014</b>	<b>6</b>	20	0
<b>0.0000028</b>	<b>1</b>	19	3
<b>0.0000028</b>	<b>2</b>	22	2
<b>0.0000028</b>	<b>3</b>	23	1
<b>0.0000028</b>	<b>4</b>	20	1
<b>0.0000028</b>	<b>5</b>	20	0
<b>0.0000028</b>	<b>6</b>	20	2
<b>0.000014</b>	<b>1</b>	20	1
<b>0.000014</b>	<b>2</b>	20	2
<b>0.000014</b>	<b>3</b>	20	3
<b>0.000014</b>	<b>4</b>	20	11
<b>0.000014</b>	<b>5</b>	20	0
<b>0.000014</b>	<b>6</b>	20	1
<b>0.00014</b>	<b>1</b>	19	6
<b>0.00014</b>	<b>2</b>	20	9
<b>0.00014</b>	<b>3</b>	21	0
<b>0.00014</b>	<b>4</b>	21	3
<b>0.00014</b>	<b>5</b>	20	0
<b>0.00014</b>	<b>6</b>	20	1
<b>0.00042</b>	<b>1</b>	20	11

<b>0.00042</b>	<b>2</b>	20	12
<b>0.00042</b>	<b>3</b>	20	11
<b>0.00042</b>	<b>4</b>	20	1
<b>0.00042</b>	<b>5</b>	20	0
<b>0.00042</b>	<b>6</b>	20	0
<b>0.0014</b>	<b>1</b>	20	2
<b>0.0014</b>	<b>2</b>	20	17
<b>0.0014</b>	<b>3</b>	20	14
<b>0.0014</b>	<b>4</b>	20	12
<b>0.0014</b>	<b>5</b>	20	10
<b>0.0014</b>	<b>6</b>	20	9

***A. mellifera* - Deltamethrin + Cerconil (0.01 g/mL)**

Deltamethrin concentration (g/mL)	colony	total	dead
control	1	20	0
control	2	20	0
control	3	20	3
control	4	20	1
control	5	20	0
control	6	20	1
0.025	1	20	0
0.025	2	20	0
0.025	3	20	0
0.025	4	20	1
0.025	5	20	3
0.025	6	20	4
0.075	1	20	2
0.075	2	20	5
0.075	3	20	2
0.075	4	20	5
0.075	5	20	3
0.075	6	20	0
0.125	1	20	1
0.125	2	20	3
0.125	3	20	0
0.125	4	20	0
0.125	5	20	3
0.125	6	20	0
0.175	1	20	1
0.175	2	20	5
0.175	3	20	3
0.175	4	20	1
0.175	5	20	4
0.175	6	20	0
0.25	1	20	0
0.25	2	20	2

0.25	3	20	11
0.25	4	20	19
0.25	5	20	20
0.25	6	20	18
0.75	1	20	6
0.75	2	20	15
0.75	3	20	20
0.75	4	20	20
0.75	5	20	20
0.75	6	20	20
1.25	1	20	13
1.25	2	20	20
1.25	3	20	20
1.25	4	20	20
1.25	5	20	20
1.25	6	20	20
1.75	1	20	12
1.75	2	20	20
1.75	3	20	19
1.75	4	20	20
1.75	5	20	20
1.75	6	20	20
2.25	1	20	16
2.25	2	20	20
2.25	3	20	20
2.25	4	20	20
2.25	5	20	20
2.25	6	20	20

*P. helleri* - Deltamethrin + Cerconil (0.01 g/mL)

Deltamethrin concentration (g/mL)	colony	total	dead
control	1	21	1
control	2	19	0
control	3	19	2
control	4	20	0
0.00000025	1	21	8
0.00000025	2	20	2
0.00000025	3	19	15
0.00000025	4	19	6
0.00000075	1	20	8
0.00000075	2	21	4
0.00000075	3	20	1
0.00000075	4	20	6
0.0000025	1	20	1
0.0000025	2	20	4
0.0000025	3	20	10
0.0000025	4	20	7

<b>0.0000125</b>	<b>1</b>	20	10
<b>0.0000125</b>	<b>2</b>	19	1
<b>0.0000125</b>	<b>3</b>	20	0
<b>0.0000125</b>	<b>4</b>	20	7
<b>0.000025</b>	<b>1</b>	21	20
<b>0.000025</b>	<b>2</b>	19	13
<b>0.000025</b>	<b>3</b>	20	9
<b>0.000025</b>	<b>4</b>	20	20
<b>0.000075</b>	<b>1</b>	20	2
<b>0.000075</b>	<b>2</b>	20	3
<b>0.000075</b>	<b>3</b>	20	16
<b>0.000075</b>	<b>4</b>	19	5

***A. mellifera* - Deltamethrin + thiophanate-methyl (0.01 g/mL)**

Deltamethrin concentration (g/mL)	colony	total	dead
control	1	20	1
control	2	20	0
control	3	20	1
control	4	20	3
control	5	20	0
control	6	20	0
0.025	1	20	2
0.025	2	20	1
0.025	3	20	0
0.025	4	20	0
0.025	5	20	6
0.025	6	20	2
0.25	1	20	8
0.25	2	20	8
0.25	3	20	5
0.25	4	20	4
0.25	5	20	7
0.25	6	20	5
0.75	1	20	20
0.75	2	20	20
0.75	3	20	11
0.75	4	20	15
0.75	5	20	20
0.75	6	20	20
1.25	1	20	20
1.25	2	20	20
1.25	3	20	18
1.25	4	20	20
1.25	5	20	20
1.25	6	20	20
1.75	1	20	20
1.75	2	20	20

<b>1.75</b>	<b>3</b>	20	20
<b>1.75</b>	<b>4</b>	20	20
<b>1.75</b>	<b>5</b>	20	20
<b>1.75</b>	<b>6</b>	20	20
<b>2.25</b>	<b>1</b>	16	16
<b>2.25</b>	<b>2</b>	20	20
<b>2.25</b>	<b>3</b>	20	20
<b>2.25</b>	<b>4</b>	20	20
<b>2.25</b>	<b>5</b>	20	20
<b>2.25</b>	<b>6</b>	20	20

***P. helleri* - Deltamethrin + thiophanate-methyl (0.01 g/mL)**

Deltamethrin concentration (g/mL)	colony	total	dead
<b>control</b>	<b>1</b>	20	1
<b>control</b>	<b>2</b>	20	2
<b>control</b>	<b>3</b>	20	1
<b>0.000075</b>	<b>1</b>	20	20
<b>0.000075</b>	<b>2</b>	20	7
<b>0.000075</b>	<b>3</b>	20	1
<b>0.00025</b>	<b>1</b>	20	2
<b>0.00025</b>	<b>2</b>	20	1
<b>0.00025</b>	<b>3</b>	20	1
<b>0.0025</b>	<b>1</b>	20	7
<b>0.0025</b>	<b>2</b>	20	20
<b>0.0025</b>	<b>3</b>	20	7
<b>0.0125</b>	<b>1</b>	20	20
<b>0.0125</b>	<b>2</b>	20	20
<b>0.0125</b>	<b>3</b>	20	20
<b>0.025</b>	<b>1</b>	20	20
<b>0.025</b>	<b>2</b>	20	20
<b>0.025</b>	<b>3</b>	20	20
<b>0.075</b>	<b>1</b>	20	20
<b>0.075</b>	<b>2</b>	20	20
<b>0.075</b>	<b>3</b>	20	20
<b>0.075</b>	<b>1</b>	20	20
<b>0.075</b>	<b>2</b>	20	20
<b>0.075</b>	<b>3</b>	20	20

***A. mellifera* - Deltamethrin + Chlorothalonil (0.01 g/mL)**

Deltamethrin concentration (g/mL)	colony	total	dead
<b>control</b>	<b>1</b>	20	0

control	2	20	0
control	3	20	2
control	4	20	2
control	5	20	0
control	6	20	0
0.025	1	20	2
0.025	2	20	1
0.025	3	20	1
0.025	4	20	0
0.025	5	20	4
0.025	6	20	12
0.25	1	20	11
0.25	2	20	5
0.25	3	20	8
0.25	4	20	11
0.25	5	20	14
0.25	6	20	19
0.75	1	20	20
0.75	2	20	9
0.75	3	20	19
0.75	4	20	20
0.75	5	20	20
0.75	6	20	19
1.25	1	20	20
1.25	2	20	20
1.25	3	20	20
1.25	4	20	20
1.25	5	20	20
1.25	6	20	20
1.75	1	20	20
1.75	2	20	20
1.75	3	20	20
1.75	4	20	20
1.75	5	20	20
1.75	6	20	20
2.25	1	20	20
2.25	2	20	20
2.25	3	20	20
2.25	4	20	20
2.25	5	20	20
2.25	6	20	20

***P. helleri* - Deltamethrin+chlorothalonil (0.01 g/mL)**

Deltamethrin concentration (g/mL)	colony	total	dead
control	1	20	1
control	2	20	0

control	3	20	0
0.0000025	1	20	2
0.0000025	2	20	2
0.0000025	3	20	0
0.0000025	1	20	1
0.0000025	2	20	0
0.0000025	3	20	0
0.0000025	1	20	1
0.0000025	2	20	1
0.0000025	3	20	10
0.0000075	1	20	2
0.0000075	2	20	1
0.0000075	3	20	2
0.000025	1	20	2
0.000025	2	20	1
0.000025	3	20	0
0.00025	1	20	11
0.00025	2	20	7
0.00025	3	20	7
0.0125	1	20	20
0.0125	2	20	20
0.0125	3	20	20

*A. mellifera* - imidacloprid+ Chlorothalonil (0.01 g/mL)

imidacloprid concentration (g/mL)	colony	total	dead
control	1	20	0
control	2	20	1
control	3	20	3
control	4	20	1
0.00000021	1	20	0
0.00000021	2	20	1
0.00000021	3	20	7
0.00000021	4	20	2
0.0000021	1	20	1
0.0000021	2	20	4
0.0000021	3	20	3
0.0000021	4	20	1
0.000021	1	20	1
0.000021	2	20	5
0.000021	3	20	8
0.000021	4	20	5
0.00021	1	20	13
0.00021	2	20	12
0.00021	3	20	14
0.00021	4	20	12
0.0021	1	20	20
0.0021	2	20	20

<b>0.0021</b>	<b>3</b>	20	19
<b>0.0021</b>	<b>4</b>	20	20

*P. helleri* - imidacloprid+ Chlorothalonil (0.01 g/mL)

imidacloprid concentration (g/mL)	colony	total	dead
<b>control</b>	<b>1</b>	20	2
<b>control</b>	<b>2</b>	20	0
<b>control</b>	<b>3</b>	20	2
<b>control</b>	<b>4</b>	20	3
<b>0.00000021</b>	<b>1</b>	20	13
<b>0.00000021</b>	<b>2</b>	20	4
<b>0.00000021</b>	<b>3</b>	20	10
<b>0.00000021</b>	<b>4</b>	20	12
<b>0.00000021</b>	<b>1</b>	20	6
<b>0.00000021</b>	<b>2</b>	20	6
<b>0.00000021</b>	<b>3</b>	20	6
<b>0.00000021</b>	<b>4</b>	20	6
<b>0.0000021</b>	<b>1</b>	20	10
<b>0.0000021</b>	<b>2</b>	20	3
<b>0.0000021</b>	<b>3</b>	20	9
<b>0.0000021</b>	<b>4</b>	20	10
<b>0.000021</b>	<b>1</b>	20	14
<b>0.000021</b>	<b>2</b>	20	13
<b>0.000021</b>	<b>3</b>	20	12
<b>0.000021</b>	<b>4</b>	20	10
<b>0.00021</b>	<b>1</b>	20	16
<b>0.00021</b>	<b>2</b>	20	19
<b>0.00021</b>	<b>3</b>	20	20
<b>0.00021</b>	<b>4</b>	20	12











