



THE FIGHT AGAINST APHIDS IN VEGETATION IN FRANCE

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Since 2 years, in France, farmers benefit from a derogation of neonicotinoid products in seed treatments to control green aphids. For plots without neonicotinoid protection, the control of green aphids must be done in vegetation. A synthesis of experimental results was elaborated, covering five contrasted years.



Teppeki and Movento tests results from 2018 to 2022

Number of green aphids per beet	Teppeki + Actirob B 1 l / ha			Movento + Actirob B 1 l / ha			Stage of the beet (Number of leaves)	Year
	Day of treatment	7 days after	15 days after	Day of treatment	7 days after	15 days after		
Loiret	1,2	0,3	0,3	2,4	0,0	0,1	10	2022
Nord	0,3	0,2	0,5	0,3	0,4	0,6	8	2022
Normandie	1,6	1,1	6,5	1,5	0,4	1,7	6	2022
Ile de France	4,6	0,4	3,3	2,5	0,0	1,1	8	2022
Aisne	1,3	16,1	X	1,8	8,3	X	6	2022
Somme	6,9	1,1	X	7,4	1,1	X	12	2022
Nord	0,4	0,0	0,3	0,4	0,0	0,0	4	2021
Normandie	0,6	0,5	2,2	0,7	0,5	1,2	8	2021
Somme	0,2	X	0,0	0,2	X	0,6	8	2021
Ile de France	3,6	1,9	4,7	3,6	3 *	5,3 *	2	2020
Aisne AA	3,2	0,3	10,0	3,2	0,2 *	6,5 *	2	2020
Normandie	0,7	0,5	3,5	1,1	1,5 *	3,7 *	2	2020
Marne	7,6	3,2	23,9	7,4	6,4 *	28,1 *	2	2020
Loiret AL	13,6	3,6 *	12,4 *	10,4	1,7 *	4,7 *	2	2020
Loiret BL	8,0	1,2	3,4	16,2	1,7 *	4,5 *	2	2020
Oise	4,1	0,4	2,5	6,0	1 *	5,3 *	2	2020
Aisne BA	12,0	3,4	X	12,0	2,1 *	X	6	2020
Somme	4,1	X	8,8	4,3	X	9,3 *	2	2020
Aisne	1,0	0,1	0,1	0,2	0,1 *	0 *	4	2019
Nord	0,1	0,1	0,1	0,1	0,1 *	0,1 *	10	2019
Normandie BE	3,4	0,3	0,2	2,5	0,3 *	0,1 *	8	2019
Oise	0,4	0,1	0,2	0,5	0,4 *	0,5 *	X	2019
Somme	2,1	0,3	0,5	2,9	1,5 *	1,2 *	12	2019
Normandie AE	0,3	0,0	X	0,5	0,9 *	X	4	2019
Normandie	0,3	0,0	0,0	X	X	X	8	2018

- * Treatment without oil
- Teppeki = flonicamide 500 g/kg
 - Movento = spirotetramate 100 g/l (Dérogation marketing authorization in France from 2019 to 2022)
 - Actirob B = oil

How to read this table ?

This table represents the number of green aphids per beet in each modality. The efficacy of Teppeki and Movento products compared to the untreated control is indicated by a colour code 7 days and 15 days after treatment (Green efficiency between 80 and 100%, yellow efficiency between 60 and 80%, red efficiency below 60%).

Discussions

With products Teppeki or Movento, the treatment reduced green aphid populations for 7 days. 15 days after the treatment the effectiveness is not guaranteed. In the same period of time, the increase of green aphids number in the untreated plots were significant. The year 2020 was characterized by a high pressure of green aphids. The temperature or the quantity of green aphids can explain differences in results. The addition of oil improves the effectiveness of the treatment with these products.