Results
field trial

Priming
In the presence of *Aphids* on pepper

Priming

Objective

To evaluate the effect of Priming

in the presence of *Aphids* in pepper crop

Material & methods

Location: San Javier (Murcia) - Spain

Crop: California pepper, Carson variety (greenhouse)

Start of trial: March 4th

End of trial: April 28th

Material & methods

Nº of plants with Priming for **TA & TB**: 15 plants x 3 repetitions = 2 leaves & 1 flower per treatment for counting

Type of application: drip irrigation

Application dose: **TA**: 2,5 l/ha

TB: 2,5 l/ha

Applications:

TA: 3 with 10 days intervals

TB: 3 with 20 days intervals

Evaluation dates: according to following table

Material & methods

TREATMENT A (3 applications with 10 days intervals)				
Date	Days after last application			Treatment
	1ª	2ª	3ª	
March 4				Counting/Application 1
March 11	7			Counting
March 14	10			Counting/Application 2
March 19	15			Counting
March 21		7		Counting
March 24		10		Counting/Application 3
March 29		15		Counting
March 31			7	Counting
April 8			15	Counting

TREATMENT B (3 applications with 20 days intervals)				
Date	Days after last application			Treatment
	1ª	2ª	3ª	
March 4				Counting/Application 1
March 11	7			Counting
March 19	15			Counting
March 24	20			Counting/Application 2
March 31		7		Counting
April 8		15		Counting
April 13		20		Counting/Application 3
April 20			7	Counting
April 28			15	Counting

Priming

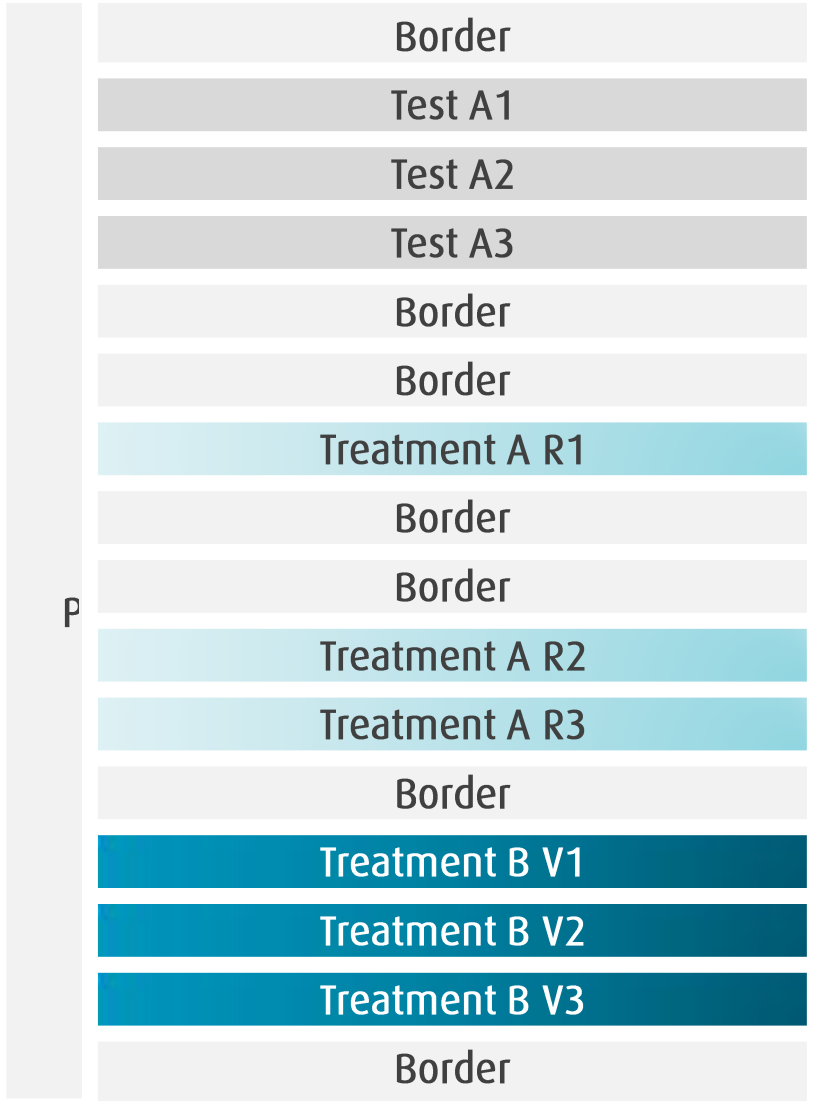
Field sketch

Location: San Javier	**Province:** Murcia	
Crop: California pepper	**Variety:** Carson	**Application system:** Radicular
Plantation: greenhouse	**Number of plants:** 15	**Number of replica:** 3

Test

Priming (every 10 days)

Priming (every 20 days)



Evaluated parameters

Presence of *Aphids*

Degree of affection

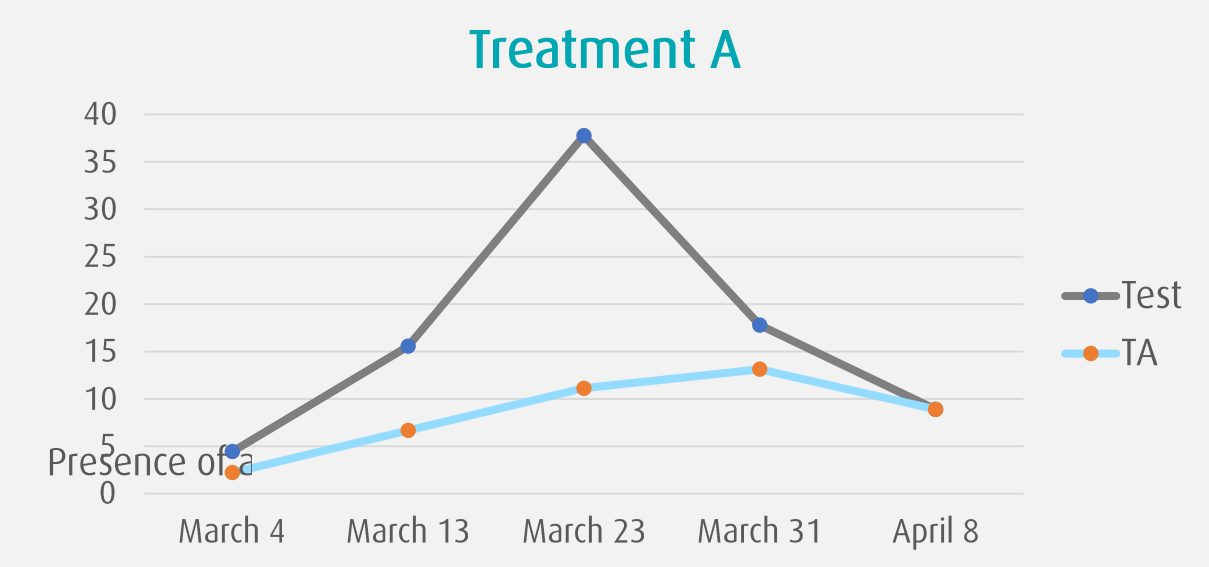
Effect on beneficials: Orius & Swirskii

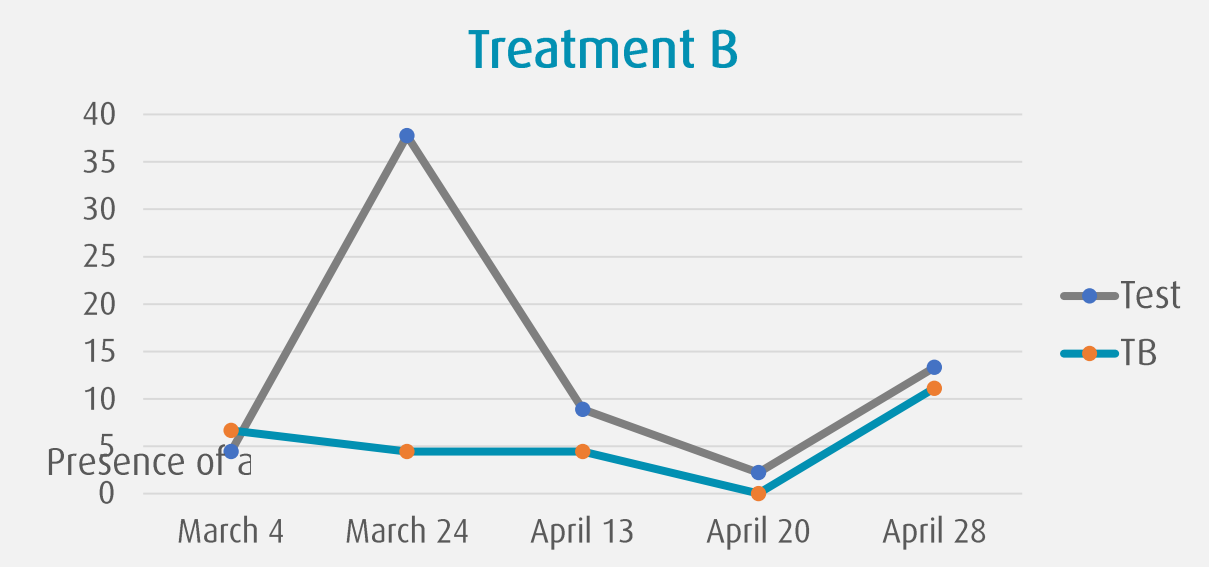
Presence of *aphids* (%)

	Before first application	Before second application	Before third application	7 days after last application	15 days after last application
Test	4,44	15,56	37,78	17,78	8,89
Treatment A (every 10 days)	2,22	6,67	11,11	13,13	8,89
Test	4,44	37,78	8,89	2,22	13,33
Treatment B (every 20 days)	6,67	4,44	4,44	0	11,11

Table 2:
Presence of *aphids* on leaves and flowers (%)

Presence of *aphids* (%)





Graphs 1 & 2: Presence of *aphids* on leaves and flowers

Remarks

During the trial, the degree of affection observed ranged from low to high, being always less in the plots treated with Priming.

Remarks

During the test, beneficial insects have been incorporated in the same way as in a conventional cultivation of the area (Aphidius, Orius and Swirskii).

At no time was a decrease in auxiliary fauna (Orius and Swirskii) compared to the untreated area.

Conclusions

Applying Priming technology in pepper we get:

To reduce the presence of *aphids* on leaves and flowers