



Field trial  
results

PRIMING

In the presence of *Red Spider* in  
mandarin crop

### Objectives

To evaluate the effectiveness of **Priming**  
in the presence of **Red Spider** on mandarin

### Material and methods

Location: Coria del Río (Sevilla) – Spain

Crop: Citrus (Mandarin), Orogrande variety

Soil texture: Silty clay loam

Plantation age: 19 years old

### Material and methods

Number of **priming** plants for T2: 5 trees per elementary plot x 4 repetitions = 20 trees

Number of **priming** plants for T3: 5 trees per elementary plot x 4 repetitions = 20 trees

Number of Test plants: 5 trees per elementary plot x 4 repetitions = 20 trees

Type of application: **root**

Dosage of application:

T2: **2,5 l/ha**

T3: **5,0 l/ha**

Application dates: June 30<sup>th</sup> and July 10<sup>th</sup>

Evaluation dates: July 10<sup>th</sup>, 17<sup>th</sup> and 25<sup>th</sup>

### Material and methods

Nº	Date	Days after last application	Application/Evaluation	Temp. (°C)	HR (%)	BBCH
1	30 June		Application	26,8	81,1	74
2	10 July	10	Application/Evaluation	34,6	95	74
3	17 July	7	Evaluation	36,2	88,5	74
4	25 July	15	Evaluation	33,4	95,3	74

### Field Sketches

Location: Coria del Río

Province: Sevilla

Crop: Mandarin

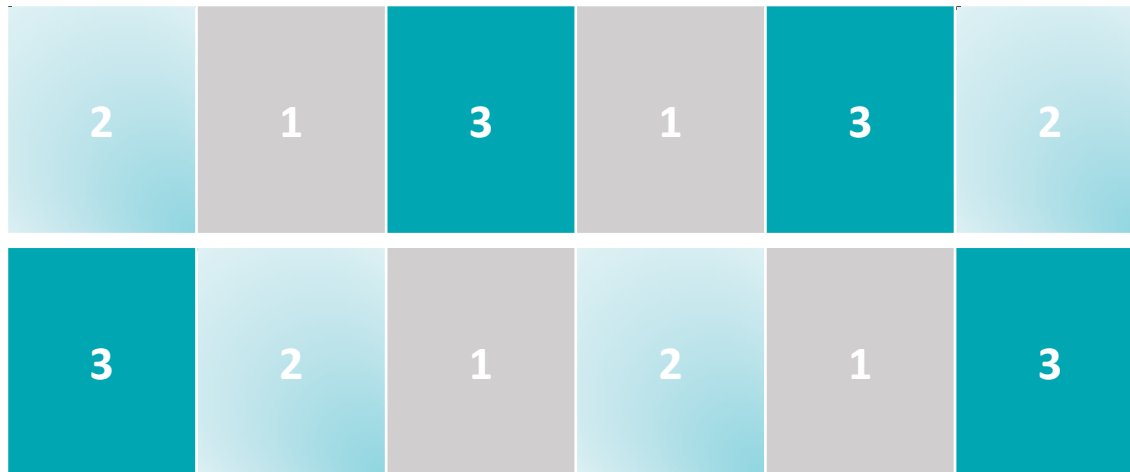
Variety: Orogrande

Type of application: Root

Plot size: 5 x 4m

Number of plants: 20

Number of replicates: 4



Test

Priming 2,5 l/ha

Priming 5,0 l/ha

### Evaluated parameters

- Number of eggs
- Number of alive larvae
- Number of alive adults

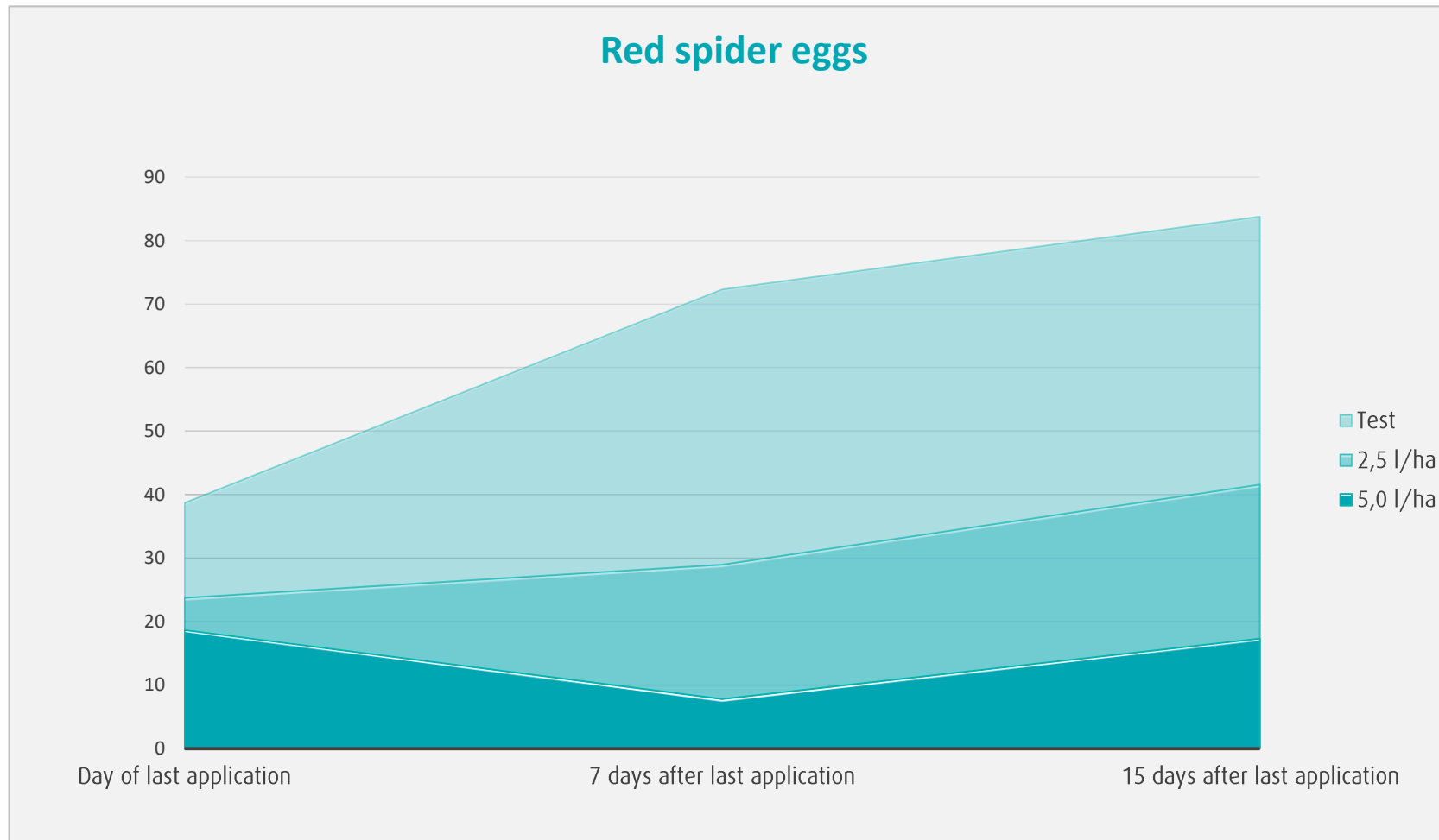
Results: No. eggs

	Day of last application	7 Days after last application	15 Days after last application
Test	38,69	72,31	83,77
2,5 l/ha	23,73	28,96	41,57
5,0 l/ha	18,66	7,79	17,32

**Table 1:**  
Average number of Red Spider eggs



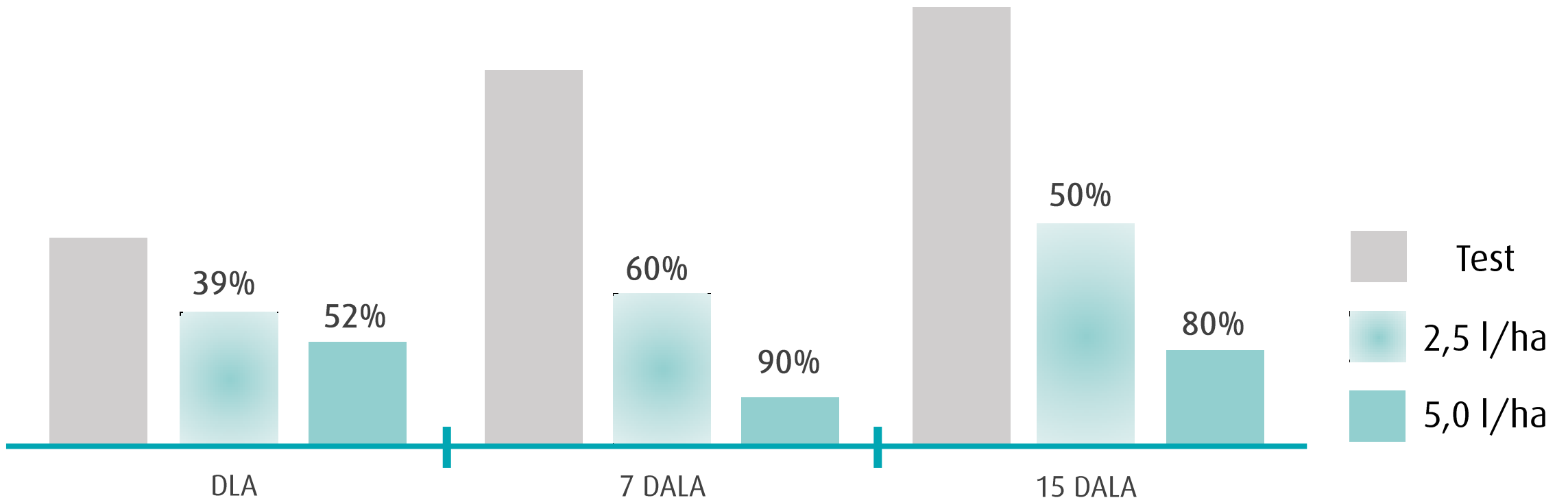
### Results: Red spider eggs



# Priming

## Red Spider on mandarin

Results: No. eggs



**Graph 4:**  
% reduction in No. of Red Spider eggs

DLA: Day of last application  
DALA: Days after last application

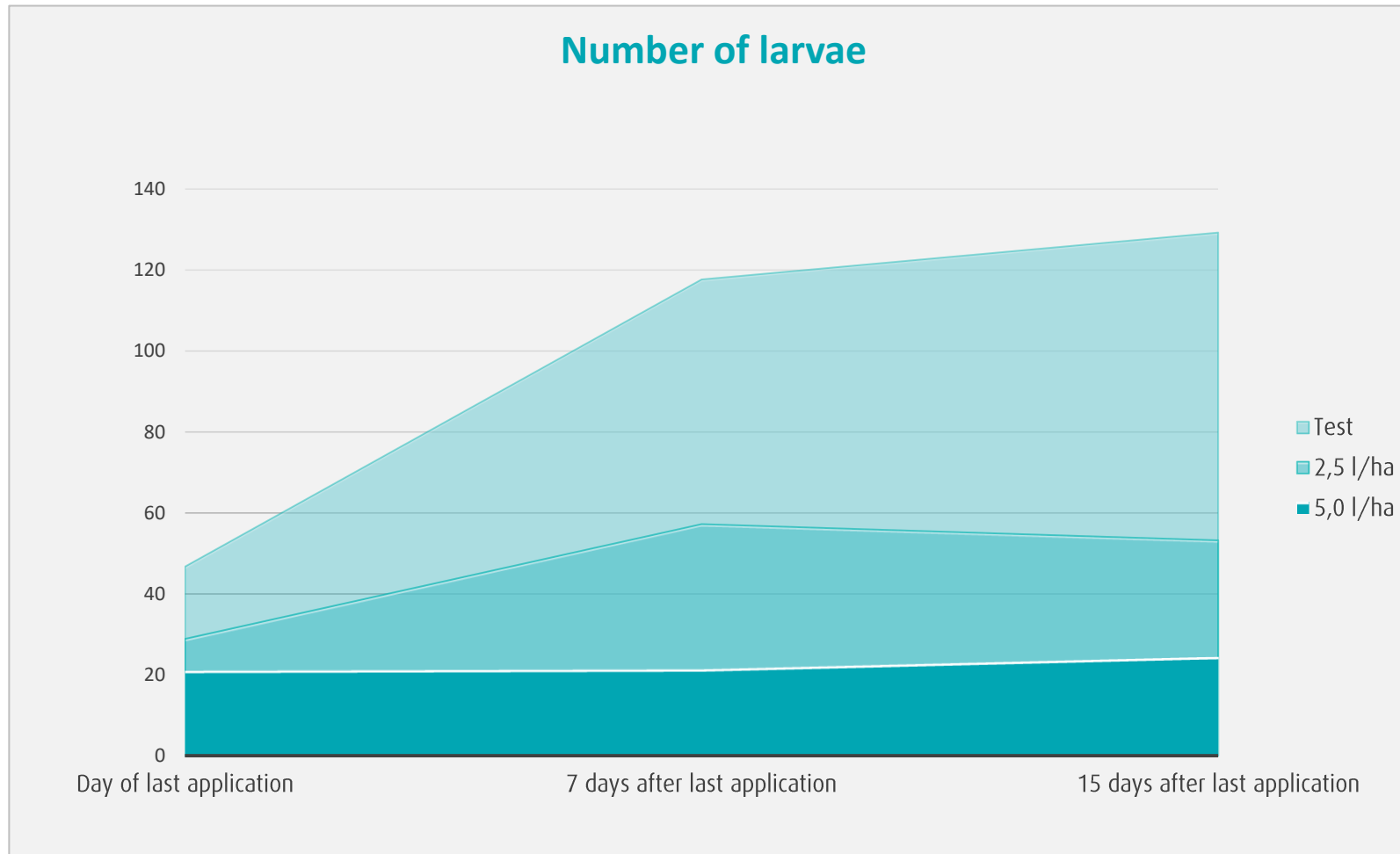
Results: No. larvae

	Day of last application	7 Days after last application	15 Days after last application
Test	46,74	117,68	129,27
2,5 l/ha	28,88	57,23	53,23
5,0 l/ha	20,89	21,25	24,32

**Table 2:**

Average number of Red Spider alive larvae

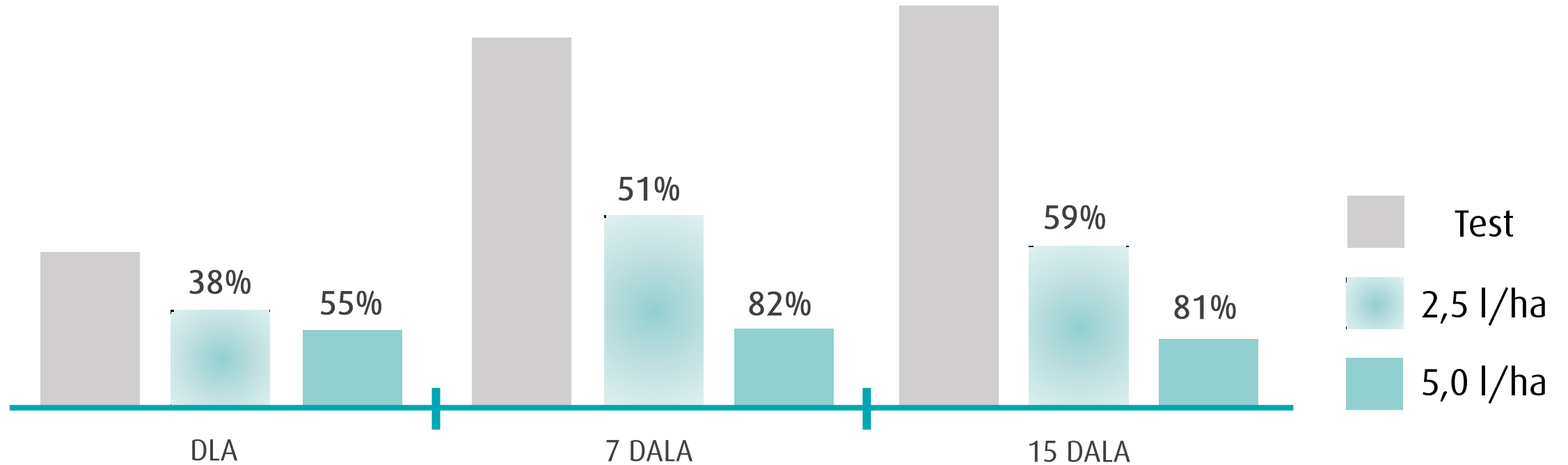
### Results: No. of larvae



# Priming

## Red Spider on mandarin

Results: No. larvae



**Graph 8:**  
% reduction in No. of Red Spider alive larvae

DLA: Day of last application  
DALA: Days after last application

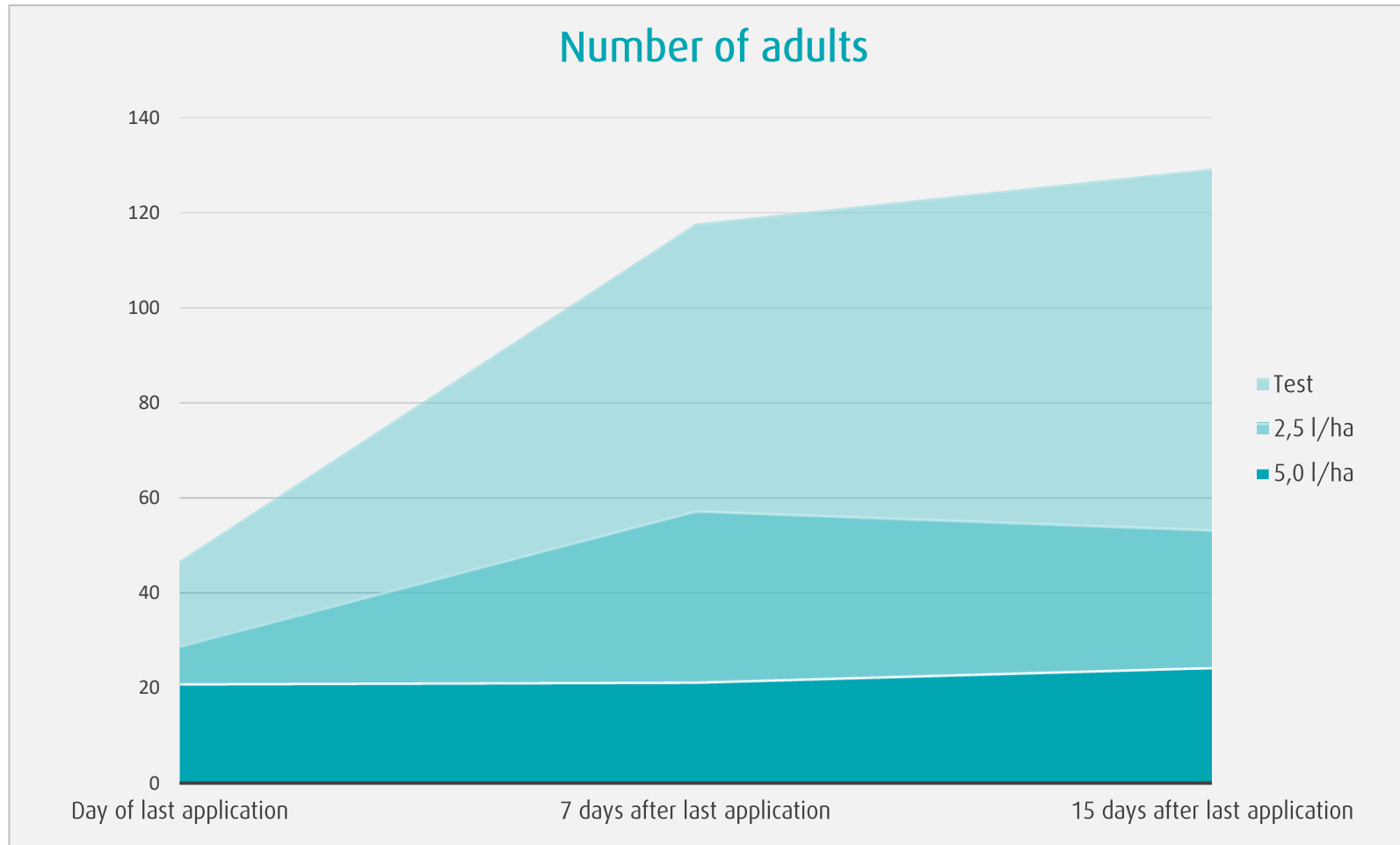
Results: No. adults

	Day of last application	7 Days after last application	15 Days after last application
Test	60,66	64,22	87,65
2,5 l/ha	26,11	27,18	38,20
5,0 l/ha	12,59	13,44	24,48

**Table 3:**

Average of Red Spider alive adults

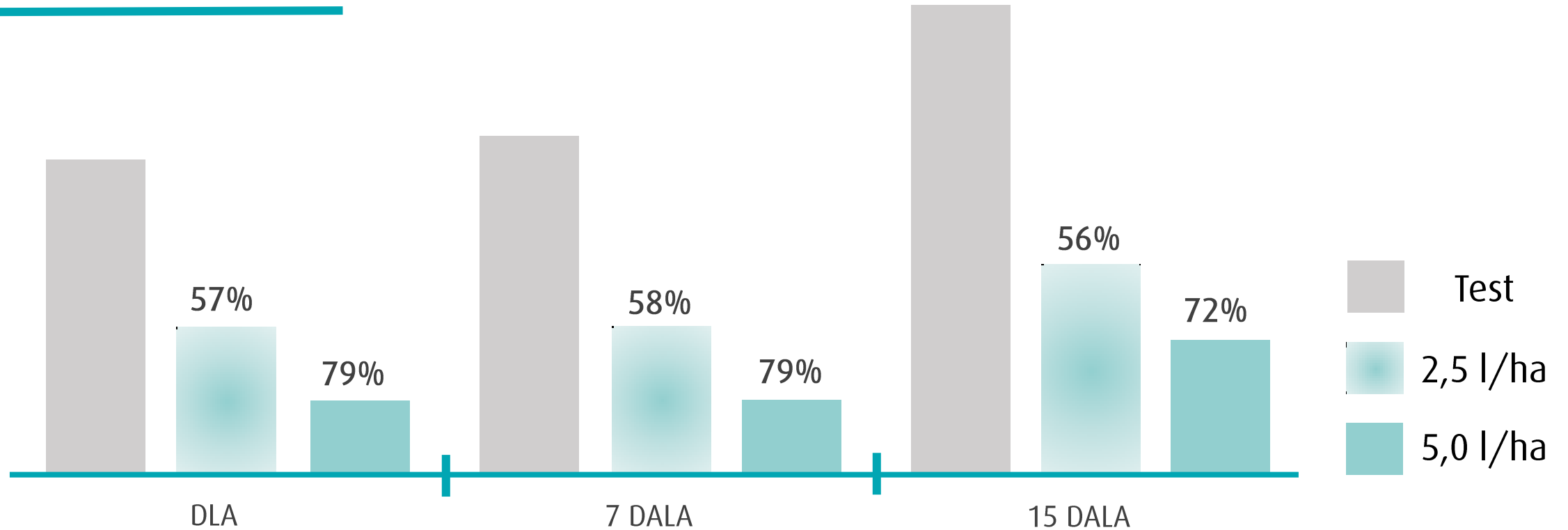
### Results: No. of adults



# Priming

## Red Spider on mandarin

Results: No. adults



**Graph 12:**  
% reduction in No. of Red Spider alive adults

DLA: Day of last application  
DALA: Days after last application



### Conclusions

Applying **priming** technology in mandarin  
we get:

Reduction of number of **eggs**, **larvae** and **adults** of  
Red Spider