

# Field Trial **+PROD**

To evaluate  
Its effectiveness in **production** on  
**Pepper** crop  
(Capsicum annum)



Introduction

Objectives

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Conclusions

## The Product

**+PROD** is a water soluble liquid **bioestimulant**

It contains **natural organic compounds**, trace elements and **metabolic fuels** that favour the generation and transport of photoassimilates needed for production.

## The Product

**+PROD** has been developed by the **R+D+i** department of **ARTAL Agrinutrients**

Together with various Universities and Research Centers in order to:

- Increase production
- Improve the crops quality



# ***F.S. TRIALS***

## Objectives

To evaluate and measure the effect **+PROD** on:

**Main parameters** affecting the **pepper** crop  
from transplant to harvest

The **production**

## Material and methods

Location: **San Pedro del Pinatar (Murcia)**

Crop: **Pepper** – Type: **Yellow California**

Variety: **Gepar**

Planting framework: **0,3m X 1m (33.333 plants/Ha)**

Soil texture: **Clay-loam**

Transplant: **December 16**

## Material and methods

**+PROD** plot area: 4.500 m<sup>2</sup>

**Test plot area:** 4.500 m<sup>2</sup>

Type of application: **irrigation by dripping**

**+PROD** dose: 5 applications at a rate of **5 L/Ha**

(total 25 Lts / Ha and crop cycle)

1st Application: **15 days** after transplanting (January 3)

(21st November).

Next Applications: **monthly application**

(February 7, March 6, April 2 and May 8)

## Assessment

Two **physiological** assessments:

- April 2    - May 8

Evaluated **parameters**:

About 25 plants per sampling and random plot and zigzagging

**Nº of fruits/plant**

**Plant height**

**Curdle\***

**Blooming\***

\*subjective evaluation



## Assessment

### Four evaluations of **harvest**:

- April 23   - May 14   - May 28   - June 27

### Evaluated **parameters**:

Total and partial **Kgs** (yellow and green)

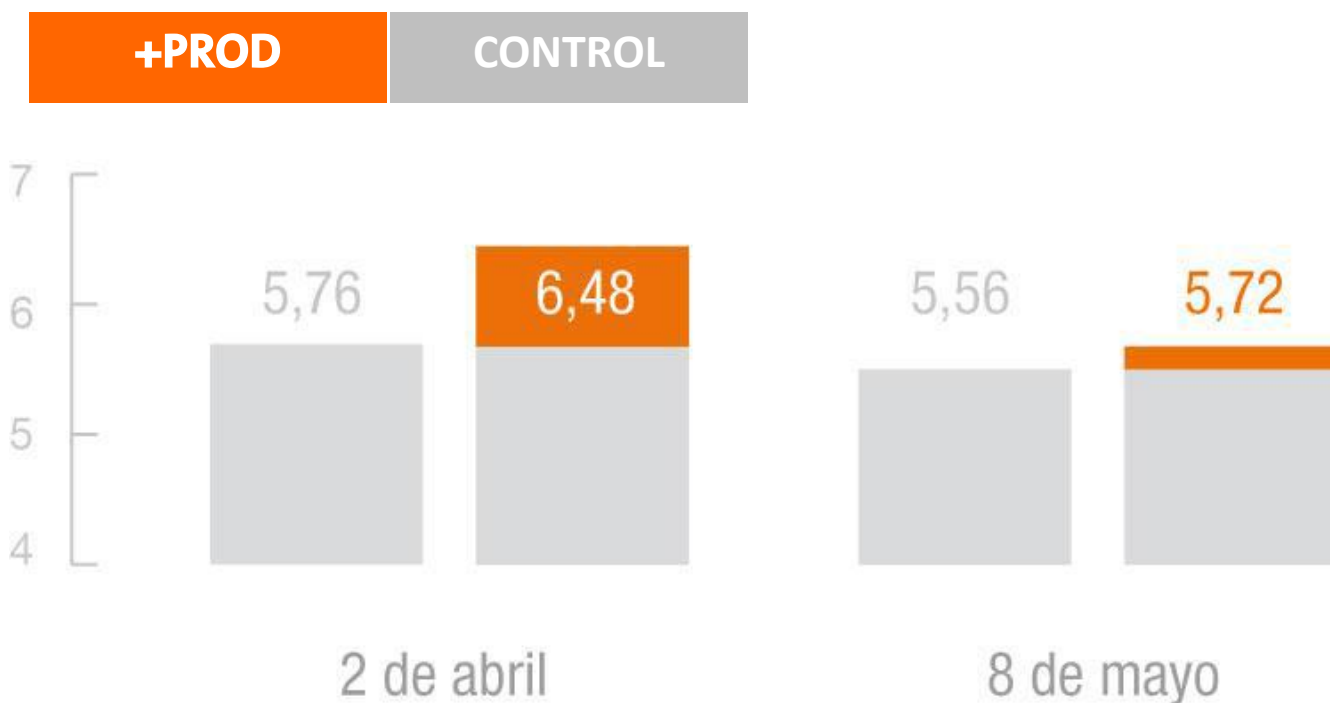
(About 25 plants per sampling and random plot and zigzagging)

### **Quality** / appearance:

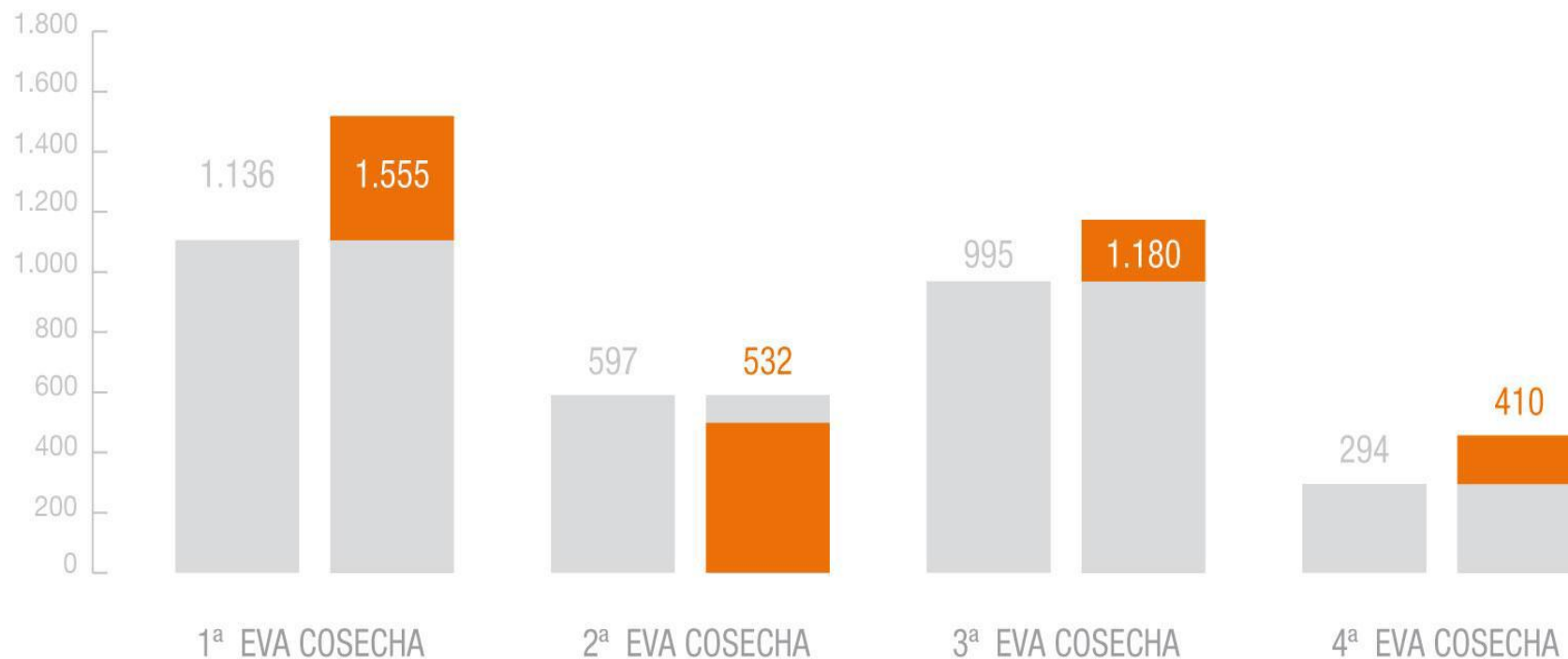
- Cracking\*
- Uniformity (w) (3 groups of 60 fruits randomly taken in control plot and **+PROD** plot)
- Color\*
- Wall / thickness\*

\*subjective evaluation

## Results and discussion

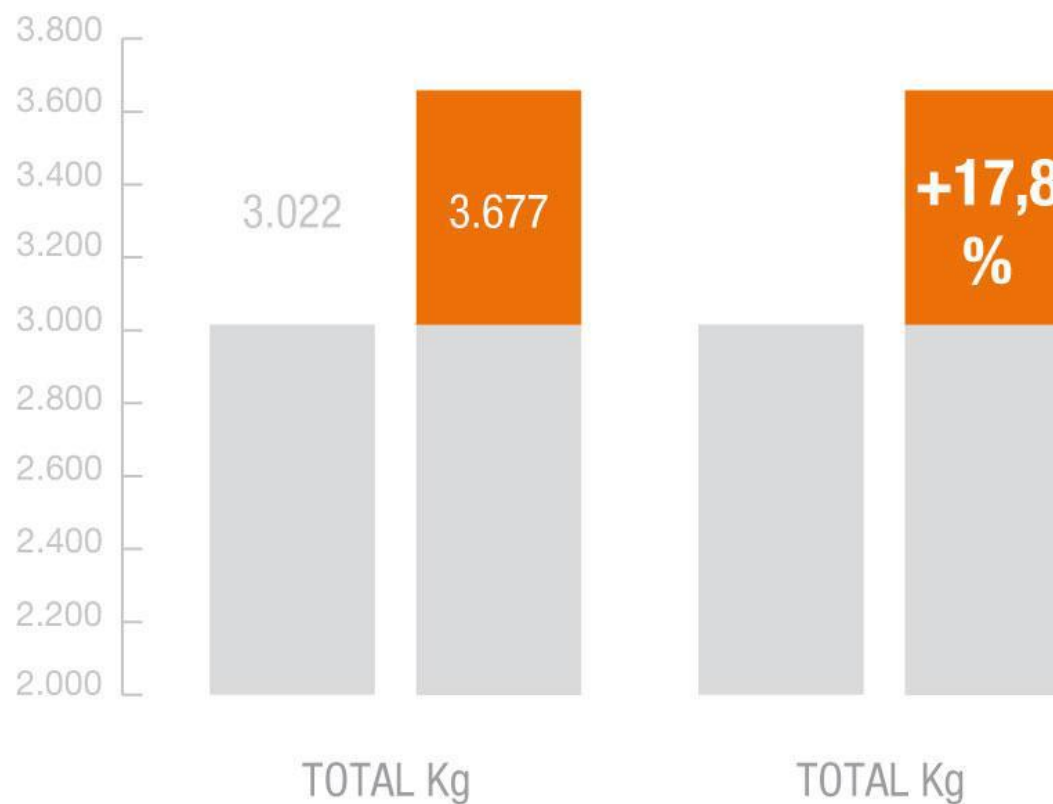
Physiological assessments **Average fruit number/ plant:**

## Results and discussion

Harvest assessments **Total Kgs harvested**

	1st EVA April 23	2nd EVA May 14	3rd EVA May 28	4th EVA June 27
<b>+PROD Kg</b>	<b>+26,9%</b>	<b>- 10,8%</b>	<b>+15,7%</b>	<b>+28,3%</b>

## Results and discussion

Total crop assessment **Total Kgs harvested**

## Conclusions

**Plants** treated with **+PROD** present:

**More flowers** on the top of the plant

**More open** structure

## Conclusions

### Fruits treated with **+PROD**:

- ✓ The have **more wall** (are “more California type”) with the marking of the four helmets more distinct than the control ones
- ✓ Features **more coloring uniformity in the natural yellow**
- ✓ **Greater uniformity of weight** (220-240-250 g/fruit) versus control peppers (205-273-236 g/fruit)
- ✓ In the beginning shows **more precocity y more setting**
- ✓ We observed **less “cracking”**

## Conclusions

Applying **+PROD** on **peppers** we get:

**+ 17,8%**

**More production**