

# +PROD

Field trial  
to evaluate its effectiveness on the  
**production** of **pepper** crop  
(*Capsicum annuum*)



Field trial conducted by FS Trials for  
**ARTAL Agronutrientes**

## The Product

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

It contains **natural organic compounds**, microelements and **metabolic fuels** that favors the generation and transport of photoassimilates necessary for production.

## The Product

**+PROD** has been developed by the **R+D+i** department of **ARTAL Agronutrientes** together with various Universities and Research Centers in order to:

- **Increase production.**
- **Improve the quality of the crops.**



*FS Trials*



## Objetives

Evaluate and measure the effect **+PROD** on:

The **main parameters** affecting the **pepper** crop from transplant to harvest.

The **production**.

## Material and methods

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

Crop: **pepper**- Tipo: **Yellow California**

Variety: **Gepar**

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

Soil texture: **Clay-loam**

Trasplantation: **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:** **riego por goteo**

**+PROD dose:** 5 applications at a rate of **5 L/Ha** (total 25 Lts / Ha and crop cycle)

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

**Following applications:** **monthly application**

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

## Assesment

Two **physiological** assesments:

- April 2   - May 8

**Parameters** evaluated:

About 25 plants per sampling and random plot and zigzagging.

**N° of fruits/** plant

Plant **height**

**Curdle\***

**Bloom\***

\*subjctive evaluation

## Assesment

Four evaluations of **harvest**:

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

**Parameters** evaluated:

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

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

**Quality** / appearance

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

\*subjetive evaluation



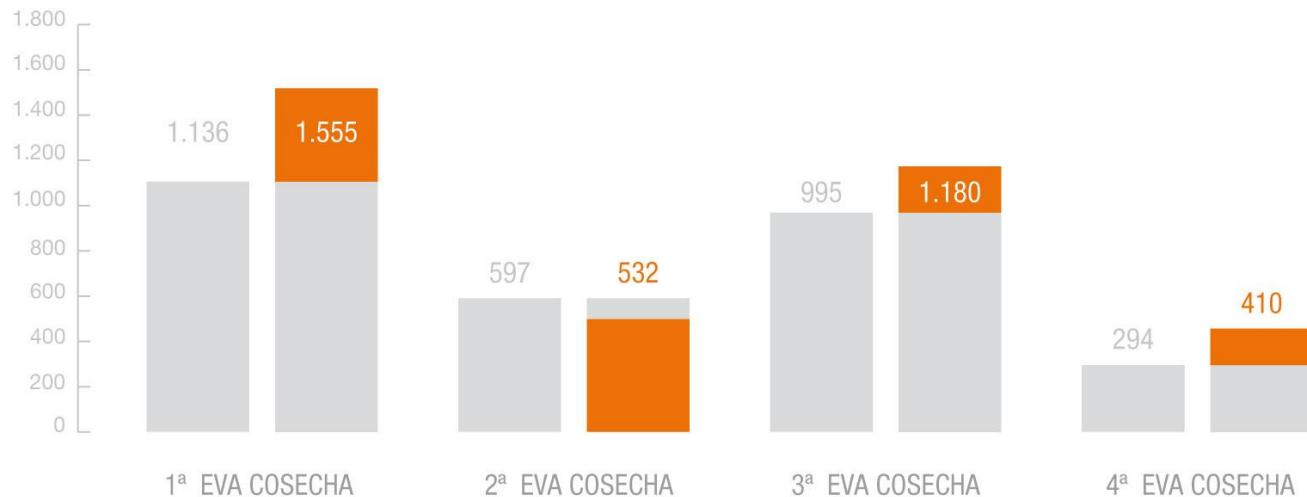
## Results and discussion

### Physiological assesments **Average fruit number / plant**



## Results and discussion

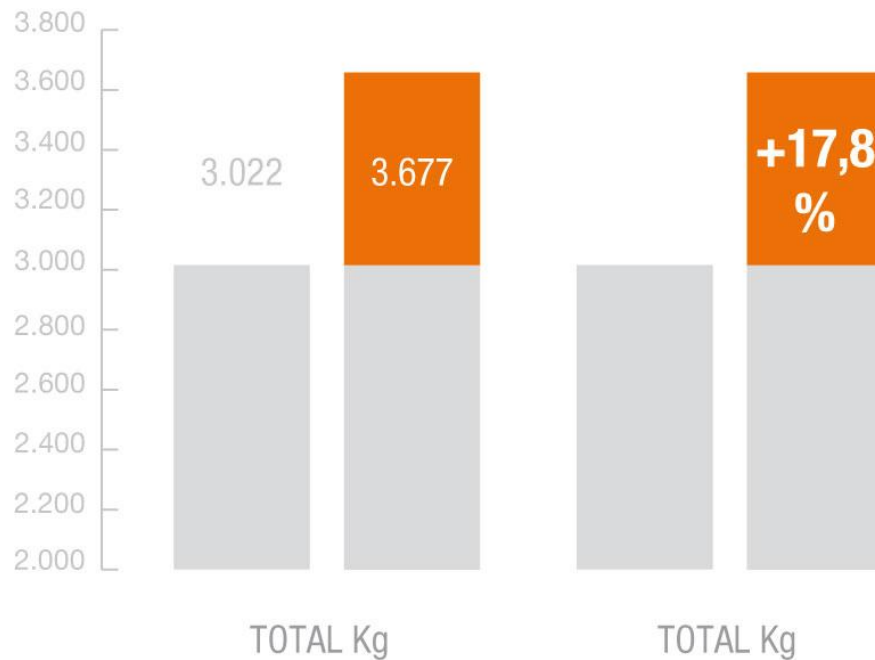
### Harvest assessments **Total Kgs harvested**



	<b>1st EVA</b> April 23	<b>2nd EVA</b> May 14	<b>3rd EVA</b> May 28	<b>4th EVA</b> 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 assesment **Total Kgs harvested**



## Conclusions

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

- **Mores flowers** on the top of the plant.
- **More open** structure.

## Conclusions

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

- They 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** and **more set**.
- We observed **less “cracking”**.

**+PROD**

## PRODUCTION OF PEPPER CROPS

*FS Trials*

### Conclusions

Applying **+PROD** on peppers we get  
**More production**

**+ 17,8%**

