

Field Trial **+PROD**

To evaluate
its effectiveness in **production** on
lettuce crop
(Lactuca sativa)



Introduction

Objectives

Material and Methods

Results and discussion

Conclusions

The Product

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

It contains **natural organic compounds**, microelements 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 of
+PROD on

Production in growing lettuce from
transplant to harvest

Material and methods

Location: **Almería**

Crop: **Lettuce** – Type: **Iceberg**

Planting framework: **0,9m X 0,32m (double) (69.444 plants/Ha)**

Soil texture: **loam**

Transplant: **6th November**

Harvest: **21st February**

Material and methods

+PROD plot area: 466 m²

Test plot area: 466 m²

Type of application: **irrigation by dripping**

+PROD dosage: 4 applications at a rate of **5 L/Ha**
(total 20 Lts / Ha and crop cycle)

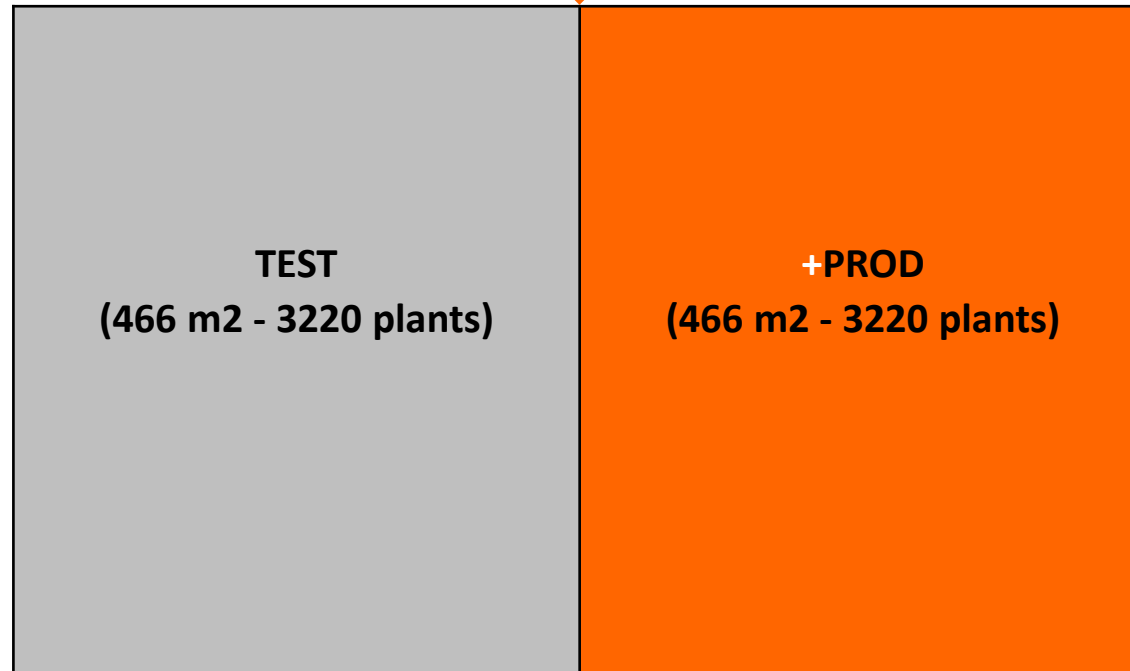
1st Application: **15 days** after transplanting
(21st November).

Next Applications: **every 21 – 25 days**

(12th December, 2nd January, 27th January)

Field sketches

Entrance



Assessments

- ✓ **Precocity**
- ✓ **Calibre**
- ✓ **Weight**
- ✓ **Production**

Results and discussion

Visual evaluations on the field showed
more precocity
on the plot treated with **+PROD**

Results and discussion

Table 1
Evaluation results of **discards** (%)

+PROD FIELD TRIAL CROP					
	HARVESTED BOXES	UNITS/BOX	UNITS/PLOT	HARVESTED UNITS	DISCARDS %
with +PROD	101	21	3.220	2.121	34,1
TEST	85	23	3.220	1.955	39,3

Results and discussion

Applying **+PROD** in lettuce
we get:

-5,2%

Less discards



Results and discussion

Table 2

Evaluation results of calibre 2 days before harvest over 22 lettuces

Parameter	PREHARVEST +PROD FIELD TRIAL			
	with +PROD		Test	
	Nr. of plants	Average Weight (g)	Nr. of plants	Average Weight (g)
Calibre nr. 9	2	615	0	0
Calibre nr. 10	9	553	5	588
Calibre nr. 12	3	510	7	473
Calibre nr. 14	5	482	7	407
Calibre nr. 16	3	283	3	370

Results and discussion

Applying **+PROD** in lettuce
we get:

More caliber



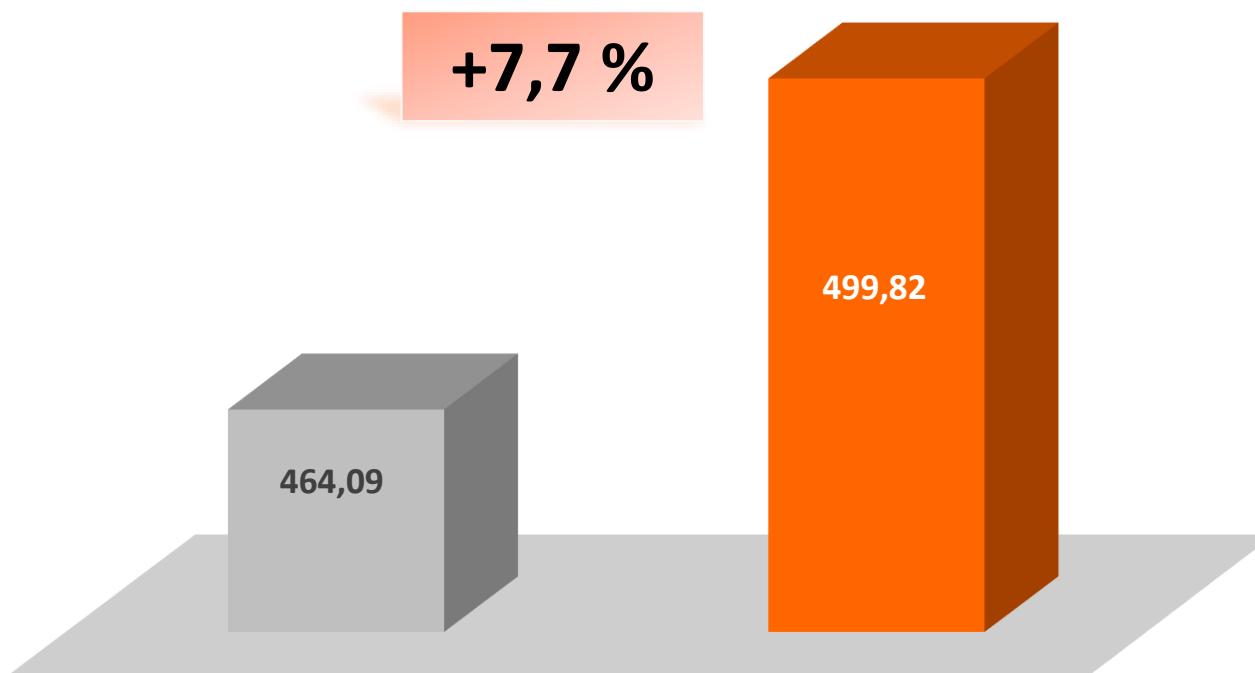
Results and discussion

Table 3

Evaluation results of weight 2 days before harvest over 22 lettuces
(unit average weight/plot).

PREHARVEST +PROD FIELD TRIAL				
Test		with +PROD		
Nr. of plants	Average Weight (g)	Nr. of plants	Average Weight (g)	% DIF.
22	464,09	22	499,82	7,7

Results and discussion



Graph 1 +PROD field trial (average weight/lettuce)

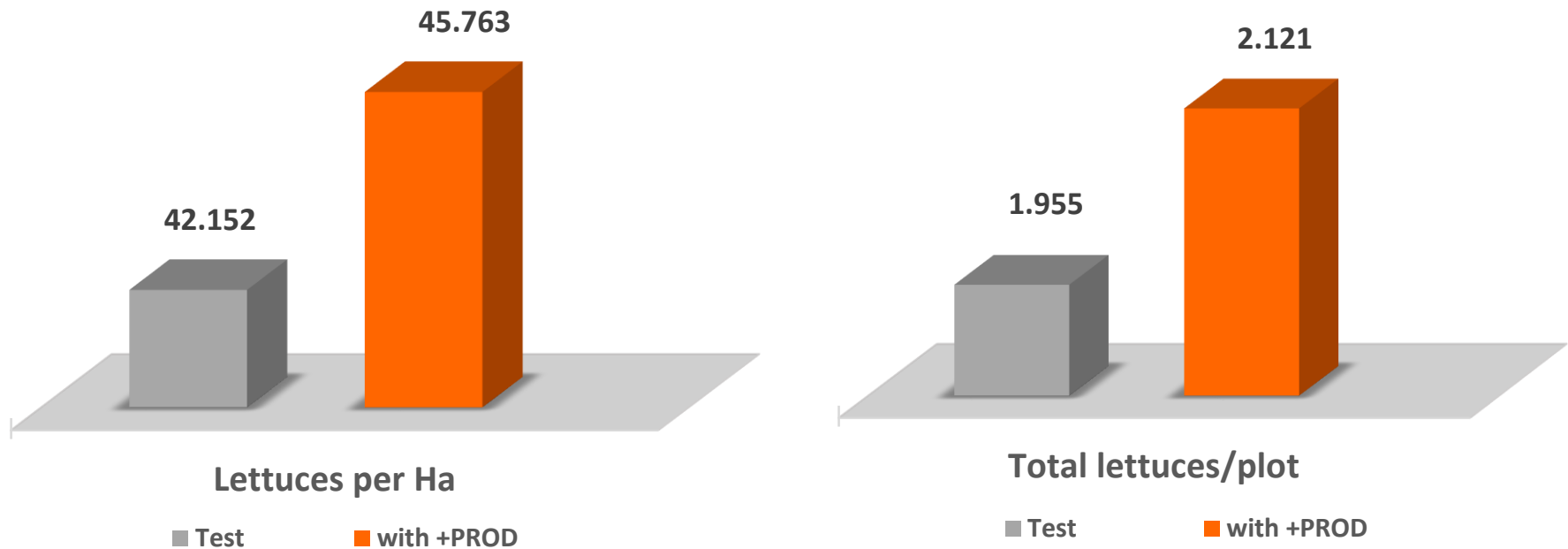
Results and discussion

Applying **+PROD** in lettuce
we get:

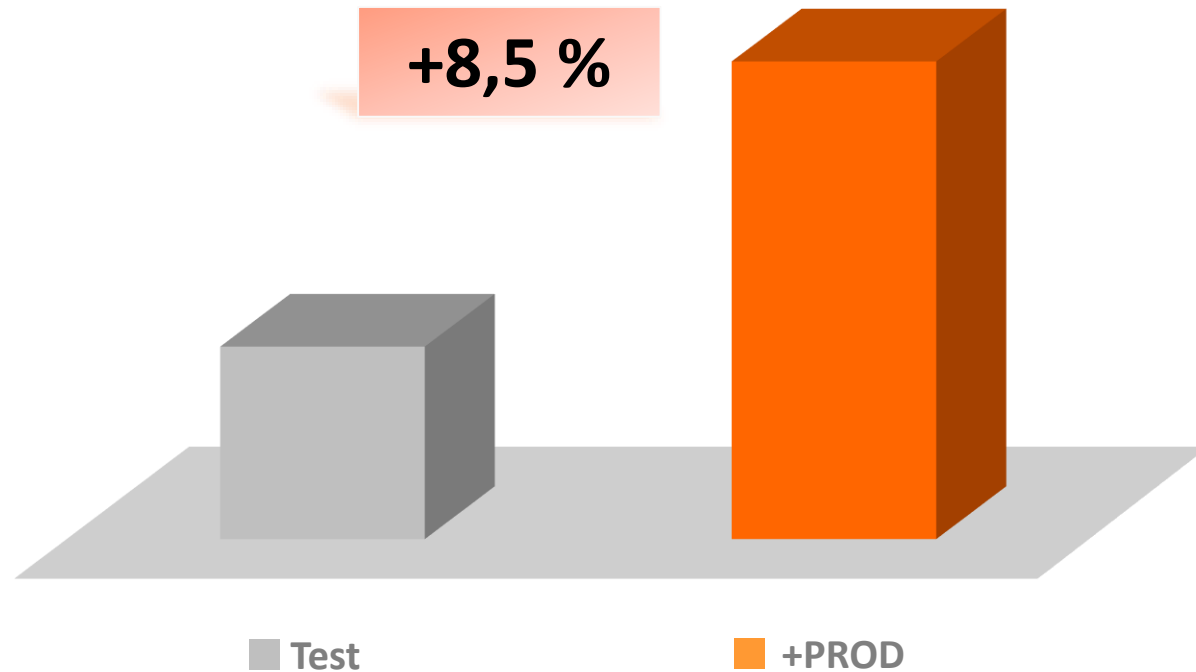
+7,7%

More weight

Results and discussion

**Graph 2 +PROD field trial (harvested lettuces)**

Conclusion



Graph 3 Increased production with +PROD (harvested lettuces %)

Conclusion

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

+8,5%

More production