

## MELON



<b>Crop</b>	Melon
<b>Location</b>	Spain
<b>Problem</b>	Saline water and soil
<b>Date</b>	June - September 2017
<b>Duration of study</b>	4 months

A study was carried out by comparing the output obtained on two plots with identical conditions, one irrigated with untreated water and the other irrigated with water treated with Aqua4D®.

Aqua4D® action enables the salts to remain dissolved in the water, and those not absorbed by the plants are trickled down well under the rhizosphere in a dissolved form. There is no more crystallization of salts in the soil pores damaging the plant.

**+20%**  
water savings



# Ecological and chemical-free

The water and soil analyses demonstrate that in the Aqua4D treated plot there were **water savings** of 20% and increased **efficiency in fertilizer** use of 25%.

## Data for calculation

Total plot area	7 ha
Average Melon price per kg	0.20 €/kg
Average price water	0.25 €/m <sup>3</sup>
Total irrigated cycle water	6'325 m <sup>3</sup> /ha
Fertilizer use	812 €/ha

## Harvest data

Control	37'549 kg/ha
<b>Aqua4D®</b>	<b>42'797 kg/ha</b>
Production increase	5'248 kg/ha
Variation	14%

## Profit calculation

Total production increase (5'248 kg/ha x 7 ha)	36'736 kg
Total profit calculation (36'736 kg x 0.20 €/kg)	7'347.20 €
Water savings 20% (0.25 €/m <sup>3</sup> x 6'325m <sup>3</sup> /ha x 7 ha x 20%)	2'213.75 €
Fertilizers efficiency 25% (812 €/ha x 7 ha x 25%)	1'421.00 €
<b>Total gain with Aqua4D®</b>	<b>10'981.95 €</b>

**ROI** less than  
2 agricultural cycles

**+14%**  
production increase



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