

## GRAPES



|                          |               |
|--------------------------|---------------|
| <b>Crop</b>              | Grapes        |
| <b>Location</b>          | Ethiopia      |
| <b>Problem</b>           | Soil salinity |
| <b>Date</b>              | 2015          |
| <b>Duration of study</b> | 12 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® enables a better dissolution and better distribution of the minerals in irrigation water. The salts remain dissolved in water and those not absorbed by the plant are carried off under the rhizosphere.

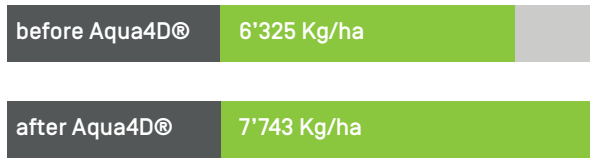
Salts are no longer crystallized in the soil pores and no longer inhibits the nutrition of the plant.

This enable a larger contact area between the roots and the nutrients as well as a greater ease of absorption.



# Ecological and chemical-free

## Production yield after 12 months



Aqua4D® enables a reduction of water consumption while improving yields and crop quality.

### Water quality

| Source     | EC [mS/cm] | TDS [mg/l] | Na+ [mg/l] | pH  |
|------------|------------|------------|------------|-----|
| Well water | 0.5        | 320        | 75         | 7.8 |

### Production yield : Chardonnay Grapes

| Plot    | [kg/ha] |
|---------|---------|
| Control | 6'325   |
| Aqua4D® | 7'743   |

### Average daily consumption of water

| Plot    | [m3] |
|---------|------|
| Control | 344  |
| Aqua4D® | 242  |

**+22%**  
production increase

**-30%**  
water consumption



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