



OLIVES

Crop	Olive Arbequina
Location	Tunisia
Problem	Saline water and soil
Date	2017
Duration of study	12 months

A study was carried out by the "Institut de l'Olivier" in Tunisia, 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 inhibit the nutrition of the plant.

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

2 years
Return on investment

Ecological and chemical-free

Water quality

Source	EC (mS/cm)	TDS (mg/l)	Na+ (mg/l)	pH
Dam	6.7	4	824	8.3

Soil quality

Structure	Organic matter %	EC (dilution 1/2.5) [dS/m]	pH
24% sand, 28% silt, 48% clay	1.7	0.8	8.2

Soil conductivity evolution

Soil conductivity [dS/m] % variation Aqua4D® vs Control	initial state		
	May	June	August
10-30 cm	+12%	0%	-33%
30-60 cm	+11%	0%	-51%
60-80 cm	+1%	-8%	-29%

The study was carried out by "L'institut de l'Olivier" in Sfax, Tunisia.



Production Yield

Plot	Production per hectare [kg/ha]	Production per tree [kg/tree]	Oil Yield %
Control	8'863	5.3	17.43
Aqua4D®	11'562	6.9	17.83

+30%
production increase

+2.3%
Oil Yield increase



Headquarters
Aqua4D Water Solutions
Ecoparc de Daval A9, 3960 Sierre
Switzerland
T +41 27 480 30 35
info@aqua4d.com
www.aqua4d.com

SWISS TECHNOLOGY 

