



water&soil®

WATER RETAINER

ORGANIC BASE SOIL CONDITIONER



0,1 L



0,4 L



1 L

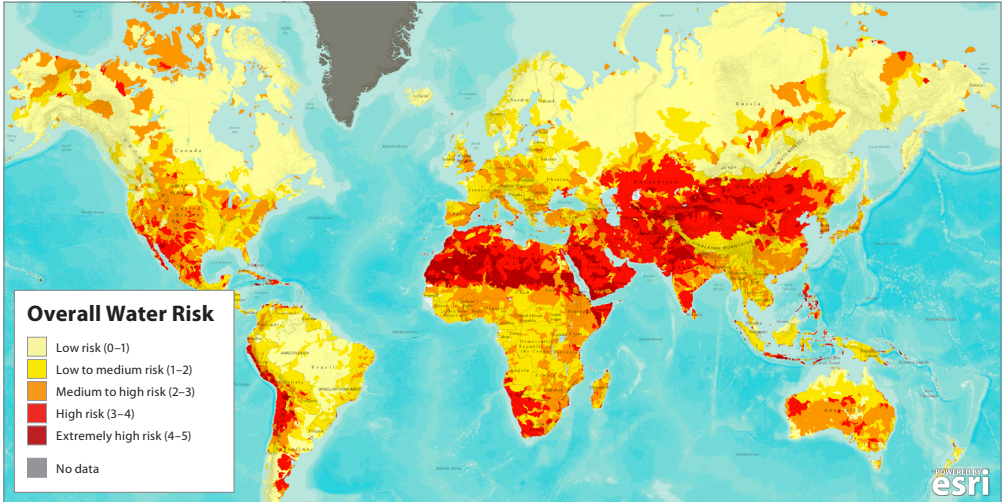
10 L

20 L

1000 L



SOLUTION FOR THE RISK



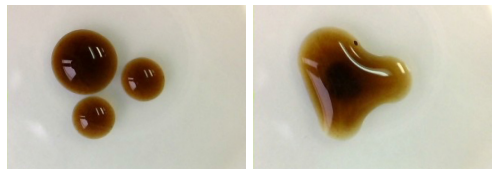
Data provided by: WORLD RESOURCES INSTITUTE

January 27, 2015

- 70% of the available sweet water is used by agriculture;
- We provide the solution how to save agriculture water consumption up to 50%

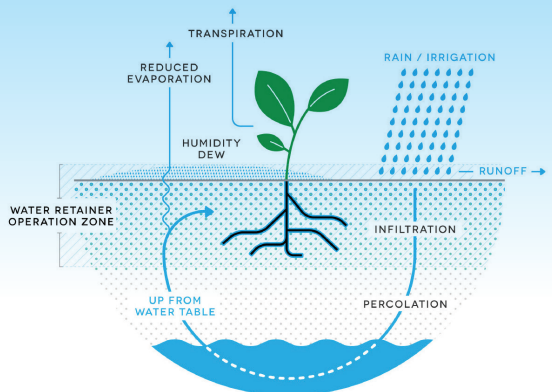
- **WATER RETAINER** is a water soluble liquid, which we spray onto the surface of the soil;
- The material locks to the soil and the roots as well.
- Organic based and degrades without any residuals. Repeated treatment is possible;
- Allows rain and irrigation water infiltration into water table;
- Significantly reduces the evaporation by the moisture around roots level.

It takes humidity from the air also



The second photo was taken under the microscope after one hour time. The Water Retainer drops became more liquid because of the humidity they absorbed from the air.

The **WATER RETAINER** absorbs a part of the humidity coming up through the capillary system, which normally goes to evaporation loss, and transfers it back to liquid water. It also absorbs humidity from the air. All these water stays in the soil and will be available for the roots.



ARABLE LAND AGRICULTURE



- can be used in rain-fed and irrigated cultivation;
- dosage is from 1.0 ml/sq.m;
- can be used in organic farming;
- degrades in the soil without remedy appr. 3 months
- saves the irrigation water up to 50%;
- helps reducing the soil degradation and salinization.



VEGETABLE-, GRAPE- & FRUIT GROWING, HORTICULTURE

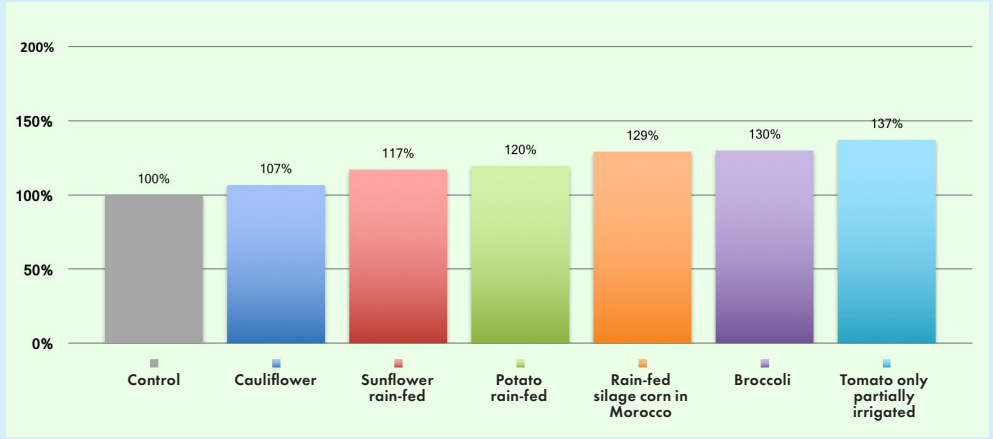
- 50% less irrigation in drip irrigated lettuce;
- most of the nutrient uptake is from the upper 40-50 cm level and it needs humidity in the soil



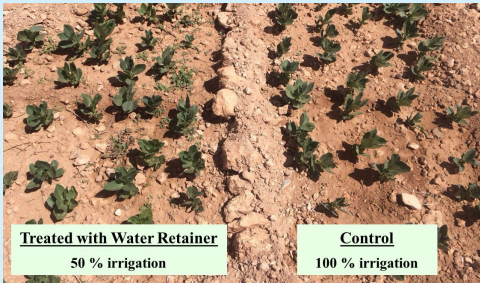
RESULTS

These results were reported by farmers, research institutions and agricultural input distributors

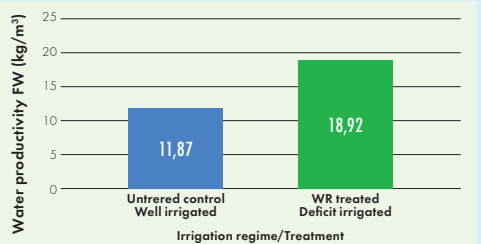
Average yield compared to the control (%)



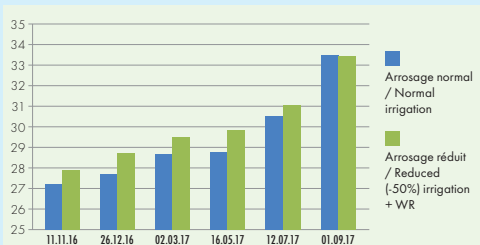
Germination trial in Marrakesh



Water productivity on irrigated silage corn in Morocco



Evolution of the height of argan sapling in arid area



Effect of Water Retainer on No. of Bolls per plant in Cotton

