

NL-FOOD SECURITY ALLIANCE



Open-air lab, Texel: Testing crops' Salt tolerance with 7 different salt concentrations in 8 repetitions



SALINE AGRICULTURE: A PRACTICAL SOLUTION TO A GLOBAL PROBLEM

SERVICES

- Soil & land management
- Water management
- Research & development
- Training & setting up test farm
- Open-source sharing of knowledge
- Marketing & communication for saline produces

SALINE AGRICULTURE - A PRACTICAL SOLUTION

Salinization is one of the major threats to agriculture worldwide. Globally, about 20% or 63 million ha of all irrigated arable land is salt affected (about the size of France).

This number increases with 2000 ha every day and crop damage in the irrigated areas is estimated at US\$ 27.3 billion every year.

Together with salinization, frequent occurrence of drought due to climate change all around the world is contributing to poverty and loss of livelihood for many smallholder farmers.

TO A GLOBAL PROBLEM



A

PRACTICAL SOLUTION

Solution:

Saline agriculture makes use of the saline resources of the world. This can either be salt affected soils or saline water. If all saline water can be used than it is possible to double the amount of water that is available for agriculture. Moreover, if salt-affected soil can be re-used, it will contribute to the arable lands required to support the growing population and for the world food security.

We can help to grow salt tolerant varieties of crops such as potatoes, carrots, cabbages, onions, etc. on saline land, using specific soil management, fertilization, and irrigation techniques.



Picture: Participating farmer in the Bangladesh project - The salt solution

Practical:

Salt Farm Foundation together with its partners has been working on the identification of salt tolerant crops for more than ten years, with results that have been scientifically validated.

While there is a lot of research going on to find a solution for drought and salinization, Salt Farm Foundation has already put saline agriculture methods into practice.

Proven:

In Pakistan our method delivered 50% more yield as compared to conventional methods (2014-2017). In Bangladesh, we are currently training 5000 farmers together with ICCO-cooperation on saline agriculture, where they can grow crops all year around and not just during the season.

We are also working together with our EU north-sea region partners from the project "Interreg SalFar" to research further to mitigate the effect of salinization.

Awareness & Knowledge sharing:

We have setup a knowledge centre for saline agriculture with the aim of creating awareness and sharing of open-source knowledge to help struggling farmers worldwide. The online platform of the knowledge centre can be accessed at www.salineagricultureworldwide.com

About us:

Salt Farm Foundation was established for the (open source) sharing of our knowledge and solutions with small-scale farmers worldwide. Our foundation aims to facilitate saline agriculture to solve food shortage, to contribute to poverty reduction, and to provide a solution for the adverse consequences of climate change.

NL-FSA

The NL-Food Security Alliance (NL-FSA) is a network of mainly Dutch companies and institutions developing exclusive and sustainable solutions in the agri-water-food-business.

NL-FSA Is a Royal Eijkelpark initiative



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