

NL-FOOD SECURITY ALLIANCE



FACILITATING SALINE AGRICULTURE TO IMPROVE GLOBAL FOOD SECURITY AND LIVELIHOOD OF SMALL SCALE FARMERS

SERVICES

- Salt-tolerant crop & halophyte research
- Soil & land management
- Training & setting up test farm
- Open-source sharing of knowledge
- Strategies for scaling up & marketing 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, then 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. Moreover, saline agriculture allows farmers to grow crops during the dry season as well.



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:

The method has already been successfully applied in various countries such as Bangladesh, Pakistan and Kenya. We are currently working together with our European North-sea region partners in the project "Interreg SalFar" to research and further to mitigate the effect of salinization, as well as creating new business opportunities for farmers, food producers and entrepreneurs. In begin 2020, we initiated the process to set up test sites on Bonaire to test local crops and spread awareness about saline agriculture.

Awareness & Knowledge sharing:

We have set up a knowledge centre for saline agriculture with the aim to create 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

Saline Garden (Zilte Smaaktuin) on Texel:

To promote Saline agriculture, we have established a Saline garden on Texel where we provide tour and presentation on saline agriculture and tasting experience of saline produces to businesses, government agencies, educational institutes and also the general public. More information about Saline garden and tours can be found on our website.

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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