



# RECLAIMING SALINE LANDS

How **RECLAIM™** and **RENEW™** transformed rice yields on salt-affected lands in Ross-Béthio & Mboundoum, Saint-Louis, Senegal

**Hot dry season 2026 • Rice variety: Isriz 12**

## Context

In the Senegal River valley, soil salinity remains one of the most persistent obstacles to productive rice farming. The plots at **Ross-Béthio** and **Mboundoum** have long suffered from sodium accumulation, leading to poor germination, weak stands, and disappointing harvests — even with improved varieties.

For this trial, we deliberately chose **Isriz 12**, a **short-cycle** variety with **low tolerance** to **salinity**, in order to subject our products to the most rigorous test possible. The results exceeded expectations: treated plots showed significantly healthier growth, fuller panicles, and visibly reduced salt deposits compared to untreated controls.

# Application Protocol



## RECLAIM™

**Application:** At first irrigation

**Role:** Sodium recovery from soil and root support. Breaks saline bonds in the root zone, enabling better establishment from day one.



## RENEW™

**Application:** Three weeks after RECLAIM™

**Role:** Nutrient retention and plant vigor. Improves absorption efficiency and supports growth through the reproductive stage.

A single dose of each product in one cycle — simple, reproducible, adaptable, and effective.

## Key Results & Observations

- ✓ Fuller, denser panicles with well-filled grains
- ✓ Higher expected yield compared to untreated controls
- ✓ Visible reduction of sodium deposits on the soil surface
- ✓ 25% less fertilizer used on treated plots
- ✓ Greener, more vigorous plants with a robust root system



Full, well-filled panicles from a treated plot in Ross-Béthio, St Louis, Senegal



Grains from a treated panicle — plump and well-developed.

## About the Products

**RECLAIM™** and **RENEW™** are enzymatic biostimulants from Agrofield Solution's BioEnzyme range, developed in partnership with BioTerra, LLC. They are designed to regenerate microbial activity and soil productivity. On saline soils, they restore productivity without heavy chemical intervention.

## Field Collaboration

These trials were conducted in close collaboration with local farming communities, institutional partners, and field technicians in the Saint-Louis region. Results were presented to farmer organizations and agricultural institutions such as SAED (National Agency for the Development and Exploitation of the Senegal River Delta Lands), ISRA (Senegalese Institute for Agricultural Research), ARD (Regional Development Agencies), and private sector actors during field days, reinforcing transparency and collaborative learning.

The team worked alongside producers to document visual and agronomic differences between treated and untreated plots, building a shared evidence base for future scaling.



Presenting field results to institutional partners and farmer organizations.



Root and stand comparison — vigorous growth on treated plots in Mboundoum.

## Conclusion & Implications

If a salt-sensitive, short-cycle variety like Isriz 12 can perform this well on previously unproductive saline lands — after a single application of just two products, **RECLAIM™** and **RENEW™** — the potential for salt-affected rice zones in West Africa and beyond is considerable.

These first-cycle results demonstrate that **RECLAIM™** and **RENEW™** can significantly restore the productivity of salt-affected rice lands — even with a low-tolerance variety. The implications extend well beyond Ross-Béthio: across West Africa, millions of hectares of saline land remain underutilized. A simple, affordable, enzyme-based protocol could unlock significant food production potential.

Additional trials are planned to validate results across other sites, varieties, and seasons.

## Interested in a Partnership?

Whether you are a farmer organization, an institution, or a distributor exploring partnership, purchasing, or distribution opportunities in your region — we would love to connect with you.

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