



Soil Innovation Day

The 4per1000 virtual Fair

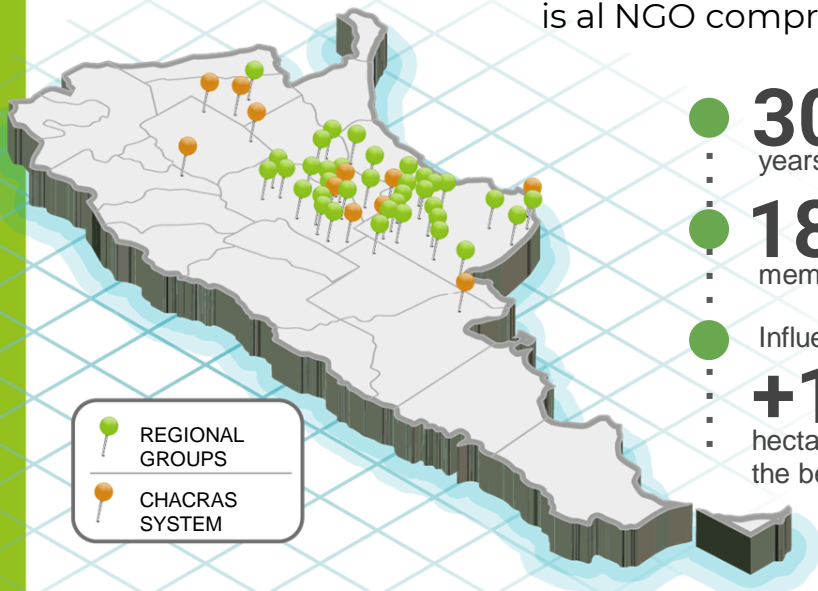
June 9th - 2023



Who we are



The Argentine No-till Farmers Association (Aapresid) is an NGO comprised of farmers and agronomists.



● **30**
: years of history

● **1800**
: members

● Influence across
: **+11M**
: hectares using
: the best technology

● Present in **Argentina, South America, Africa**

● Representation in **international forums**

● Over **900**
: farmers leading R&D
: projects in their own
: farms, on over 20
: different topics

Our mission



To promote **sustainable food, fibers, and energy production.**

HOW DO WE DO IT?

1

Developing agricultural **systems that optimize production with lower environmental impact.**

2

Promoting **innovation in networks.**



System Chacras Chacra Pergamino - Colón



Objectives I

Development of productive models with higher productivity; more efficient use of resources (light, water and nutrients), stability of yields and maintenance or improvement of the environment.



Learning while producing and leading horizontal role

Context location: Chacra Pergamino - Colón



Selected environments:

- **North zone:** Peyrano series with slopes (EA. **San Nicolás**)

- **Central zone:** Urquiza series, flat relief (Ilw). Similarity with Pergamino series, flat (EA. **La Lucila**).

- **South Zone:** Rojas Series I-1, flat. Similar to Arroyo Dulce Series, flat (**La Matilde**).

- **East Zone:** Series Río Tala (EA. **Las Matreras**)

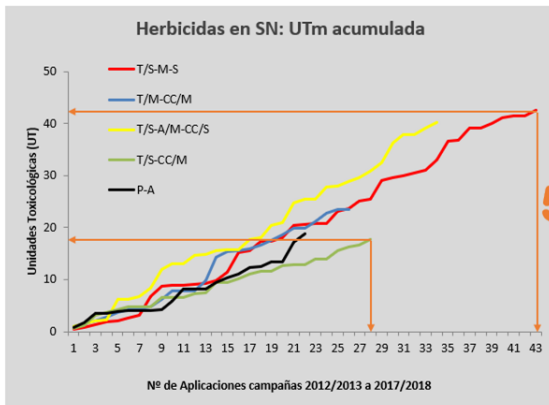


Some of the results:

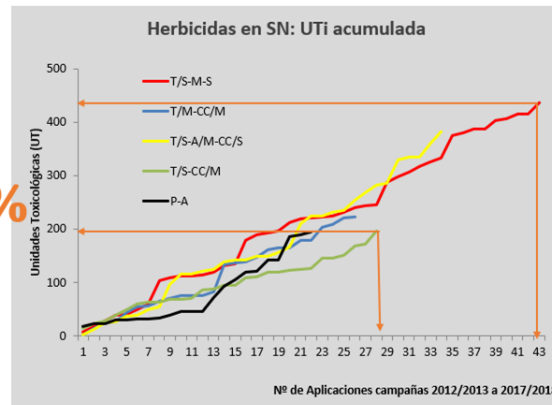
Reduced use of herbicides and lower environmental impact



REDUCTION OF TOXIC U AND APPLICATION



50 %

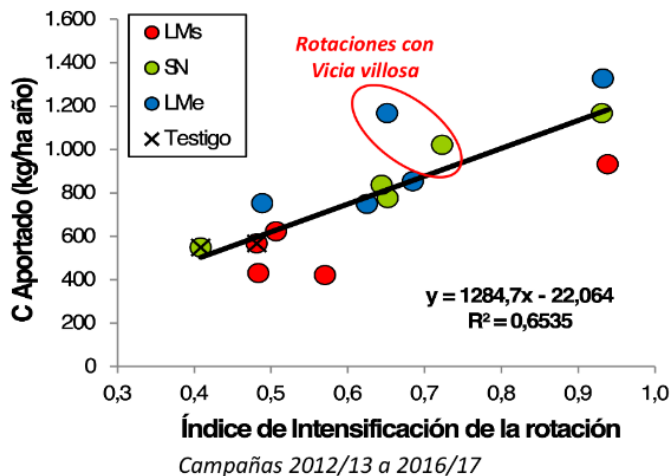


34%
Lares

Some of the results:

Importance of legumes in rotations

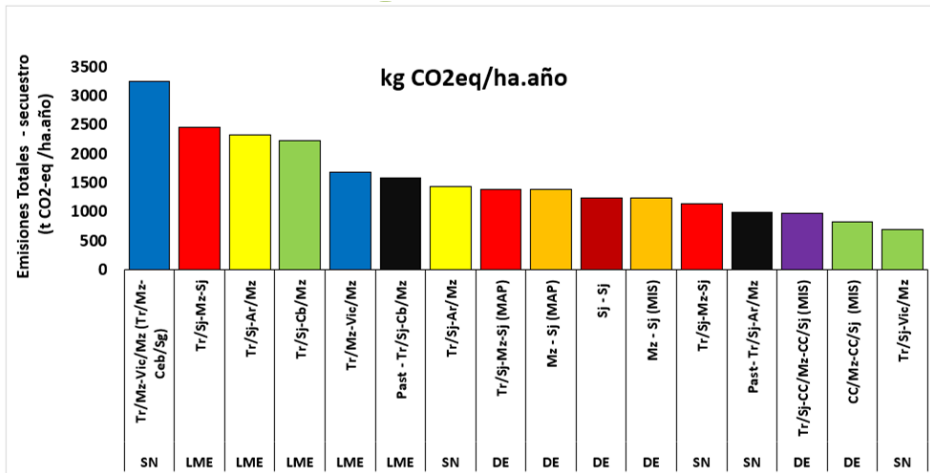
APORTE DE CARBONO



Some of the results: Less CO2 emission



NET EMISSIONS RANKING

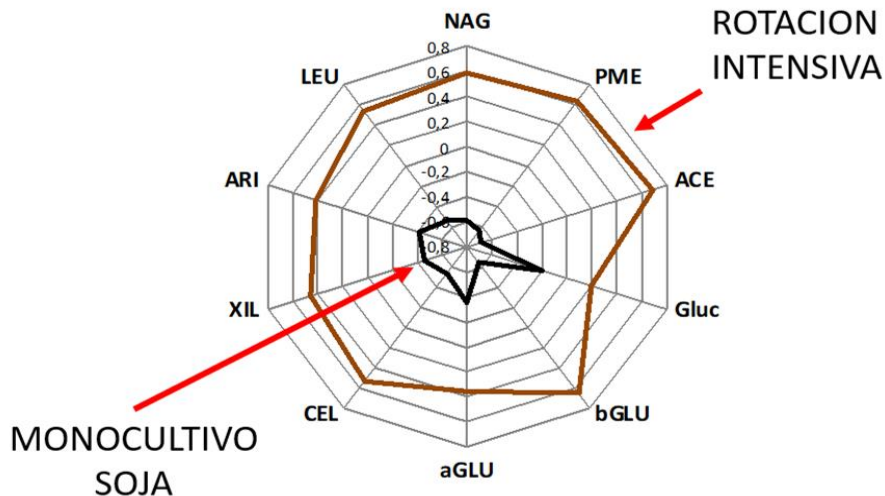


Taboada, M

Some of the results:

Soil health - increased biological activity

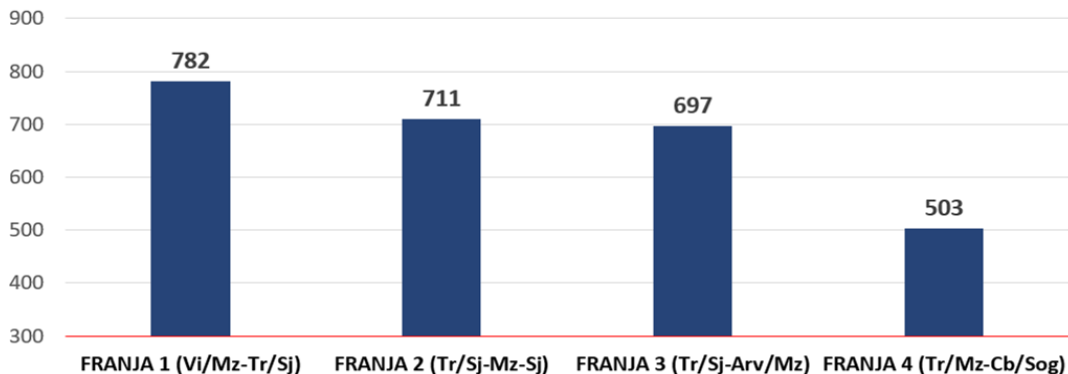
ENZYME ACTIVITY PROFILE



Some of the results: *Economic benefit*



AVERAGE GROSS MARGIN 5 CAMPAIGNS FOR 4 ROTATIONS OF THE CHACRA



Uranga, P

Next steps: *CHACRA Pergamino - Colón*



Objectives II

1

Generate biological indicators that explain the health and evolution of soils in intensified and diverse systems.

2

Quantify and compare the impact generated by inputs applied to production systems.

3

Generate neutral C systems, where higher productivity and efficient use of water are demonstrated.

CHACRA Pergamino - Colón



*Improving soil health for healthier food
and better environment*