# SOYGREEN

Nutrition

**Timing:** Soil, Foliar

**Nutrient Type:** Micronutrients

**Formulation:** Granular, Liquid


## SoyGreen - Superior Iron Chelation Technology

The patented ortho-ortho Fe EDDHA makes Soygreen® the only proven iron source for overcoming Iron Deficiency Chlorosis (IDC) in all crops, including soybeans.

- Chelated with the Levesol™ Technology, the patented ortho-ortho EDDHA keeps iron soluble and plant available as a Ferrous ($Fe^{+2}$) iron
- Improved iron uptake by the roots allows the plant to overcome iron deficiency chlorosis (IDC).
- The Levesol™ technology chelates additional micronutrients in the soil also making them available to the plant
- Can be applied either as an in-furrow application or as an early season foliar spray

**Available in Liquid and Granular Form**

## Plant Available Iron = Delivers the Genetic Potential

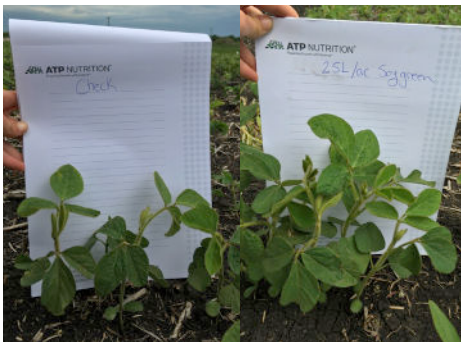
IDC is a soil related issue that's common on land with high pH levels. Highly alkaline soil can prevent the plant roots from reducing iron into a soluble, plant available form, known as ferrous iron ($Fe^{+2}$). Additional factors affecting iron availability and plant uptake include high bicarbonates, soluble salts, excess water, high nitrogen (N) or high Manganese (Mn). The end result is a lack of iron availability to the plant causing a poor root system, reduced plant vigour and interveinal yellowing on the youngest leaves. Soygreen will help you fight back against IDC.

- Having the purest form and highest percentage of ortho-ortho EDDHA, Soygreen makes plants strong enough to keep ferrous iron ($Fe^{+2}$) in its soluble state to overcome iron deficiency chlorosis (IDC).
- The chemisty of ortho-ortho EDDHA in Soygreen makes other micronutrients in the soil soluble for plant uptake.
- Soygreen has been proven for almost 10 years to grow superior soybeans in areas suffering from IDC and reports an average yield increase of 8.2 bu/ac (105 Trials).

### Addressing IDC

*Iron deficiency (left) vs. SoyGreen treated (right) in Ile de Chenes, MB (2016)*
*SoyGreen liquid applied in furrow at 2.5 L/ac*

### Improved Vigor




*Check (left) vs. SoyGreen treated (right) in Kelburn (2017)*
*SoyGreen liquid applied in furrow at 2.5 L/ac*

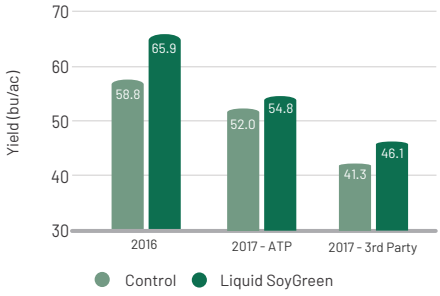
### Foliar Application

*Iron deficiency (left) vs. SoyGreen treated (right)*
*4.3 bu/ac yield gain. Stonewall, MB (2017)*
*SoyGreen foliar applied at 1.75 L/ac*

# Proven Agronomic Performance

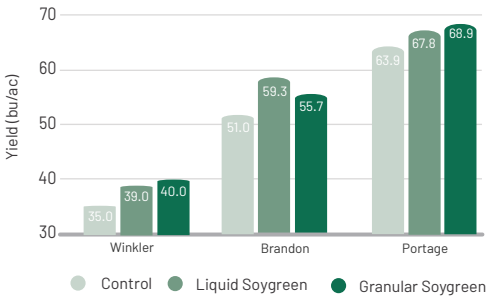
- Data collected from 16 IDC responsive sites from across S. MB., showed that Soygreen liquid applied at 2 lb Fe/ac (2.5 L/ac) enhanced productivity on average 4.8 bu/ac.
- In 2017 trials, Soygreen granules on average performed equal to Soygreen liquid on IDC responsive sites. From the 3 trial sites, the average yield benefit from Soygreen was 4.9 bu/ac when applied at 4 lb of product/ac (2 lb Fe/ac)
- Foliar Soygreen treatments (5 trials) from 2016 and 2017 , reported an average yield enhancement of 5.1 bu/ac when compared to untreated soybeans showing IDC symptoms.
- To review the complete Soygreen data package, please contact your ATP Technical expert today.

## Yield - Liquid SoyGreen Soil Applied



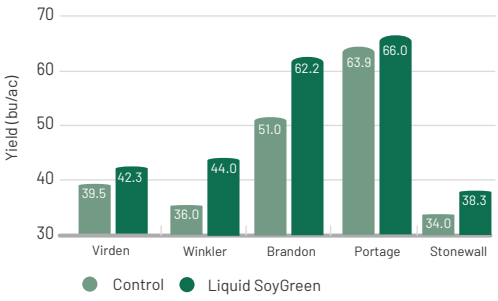

*Soygreen applied in furrow, at 2.5 L/ac (2 lb Fe/ac).*
*There was a total of 16 trials, 3 third party trials from 2016, 4 trials from ATP research sites in 2017 and 9 third party trial sites in 2017.*

## Yield - Granular SoyGreen Soil Applied




*Replicated trials from Iron responsive sites.*
*Soygreen liquid applied in furrow at 2.5 L/ac (2 lb Fe/ac).*
*Soygreen granules applied in in furrow at 4 lb/ac (2 lb Fe/ac).*

## Yield - SoyGreen Foliar Applied




*Virden trial was conducted in 2016, and all others were 2017 trials.*
*Soygreen was applied as a foliar application at 1.75 L/ac, 2 times during the season with the exception of Stonewall which only had Soygreen applied 1 time at 1.75 L/ac.*

***"Nobody likes yellow beans. SoyGreen works close to 100% of the time to prevent that"***

***- Nick Frobuccino, Retailer, Elbow Lake, MN***

# Product Recommendations

- Soygreen granules can be applied either alone or blended with other granular fertilizers. For best results, an in-furrow or side band is recommended over a broadcast application.
- Soygreen liquid can be applied in-furrow or foliar, but research shows that in-furrow applications are the most effective.
- Post-emergent Soygreen liquid applications should be made either before or as soon as IDC symptoms appear.
- If mixing with glyphosate, be sure to use a high quality acidifying water conditioner such as ModipHy.
- Always conduct a jar test if adding products to the Soygreen tank mix.
- To view the Soygreen SDS and Product Labels please visit www.atpag.com.

| Product | Analysis | Rate (L/ac) | Timing | Form |
|---|---|---|---|---|
| **Soybeans** | 1.8% Fe | 2.5*-3.75** L/ac | Soil | Liquid |
| **Soybeans** | 3.0% Fe | 4.0*-6.0** lb/ac | Soil | Granule**** |
| **Soybeans** | 1.8% Fe | 1.75*** L/ac | Foliar | Liquid |
| **Dry Beans** | 1.8% Fe | 1.25 L/ac | Soil | Liquid |
| **Dry Beans** | 1.8% Fe | 1.25*** L/ac | Foliar | Liquid |

** Common rate for northern geographies*
*** Rate recommended for severe iron deficiency*
**** Repeat when chlorosis begins to reapper. Repeat applications have shown better efficacy than a single higher rate application*
***** bulk density is 43lb/ft3*

ATP
RESTORE THE BALANCE

At ATP, we believe a proactive, science-based approach to restore the balance between plant and soil health is the single most effective way to deliver the genetic potential of the crop. We challenge the status quo by utilizing agtech to monitor and drive productivity.

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