



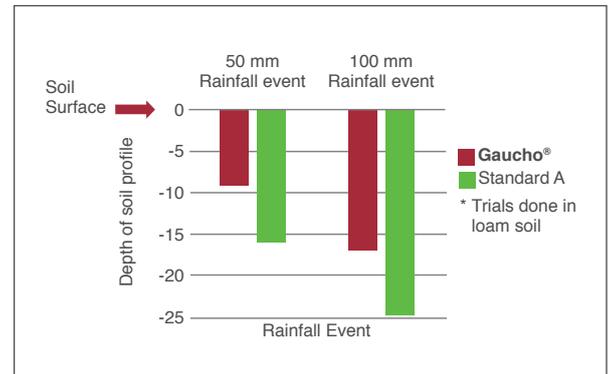
# Gaucho®

## Performs the best *when you need it most*

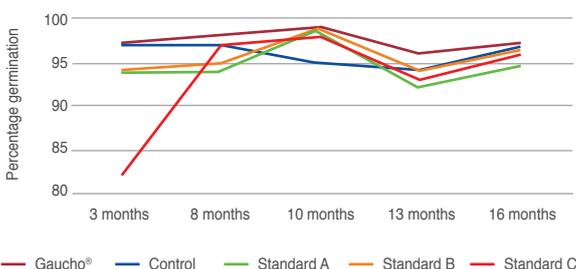
**Gaucho® 600 FS** offers excellent control of soil insects, storage pests as well leafhopper which is the vector of Maize Streak Virus. (the colourless formulation of **Gaucho® Flexx 600 FS** allows for flexibility in a seed treatment recipe.)

### What makes Gaucho® so effective?

The low water solubility of **Gaucho® 600 FS** means that it does not leach out as readily out of the root zone when compared to its competitors. This means that the active ingredient remains available for the growing seedling to take up the active ingredient, protecting the seedling from insect damage for longer. The graph on the right-hand side shows the movement of the active ingredients after simulated rainfall events. Standard A readily moves through the soil profile and out of the root zone, making uptake by the plant more difficult. Due to the lower water solubility of **Gaucho®**, there is less movement in the soil profile and uptake occurs readily.



*Insect pests in the soil such as Astylus larvae, Black maize beetles, Ground weevils, False wireworms as well as Root worms have the ability to cause severe yield losses. This occurs when the insects feed on the germinating seed and the young seedling, lowering the plant stand of a field leading to yield losses. **Gaucho® 600 FS** is really effective at protecting the seedlings against soil insect pest damage, leading to a higher plant stand and ultimately an increase in yield.*



Maize seed may be treated with **Gaucho® 600 FS** immediately before planting or can also be treated earlier and stored under cool dry conditions for a season without germination and insecticide activity being affected. Seed treated with **Gaucho® 600 FS** will also be protected from damage from Tropical warehouse moth (*Ephestia cautella*), Lesser grain borer (*Rhizopertha dominica*), Rice weevil (*Sitophilus oryzae*) and Confused flour beetle (*Tribolium confusum*) for a period of at least 12 months. The graph on the left shows the percentage germination of maize seeds treated with **Gaucho® 600 FS** compared to other insecticide seed treatments. **Gaucho® 600 FS** safeguards the seed from damage whilst ensuring that excellent germination is maintained.

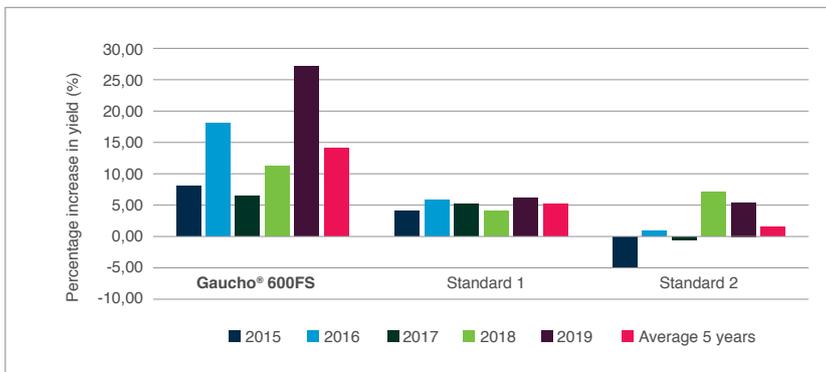


Maize streak virus (MSV) disease on maize is caused by a virus with the name of Maize streak virus (MSV) spread by leafhoppers. MSV disease can cause detrimental losses to maize yields, causing losses in excess of 90% if left untreated. The severity of the loss depends on when the infection occurs; the earlier the infection, the more severe the losses can be. MSV disease is characterised by yellow spherical symptoms which develop 3-6 days after infection, and they coalesce to form the characteristic yellow stripes or streaks. Maize streak virus is spread throughout a field through *Cicadulina* leafhopper species with *Cicadulina mbila* being the most economically important vector.

**Gaucho® 600 FS** controls the leafhopper which spreads the Maize streak Virus. It is important to note that some infection will still occur due to the fact that the insect needs to feed in order to be controlled.

## Demonstration trials

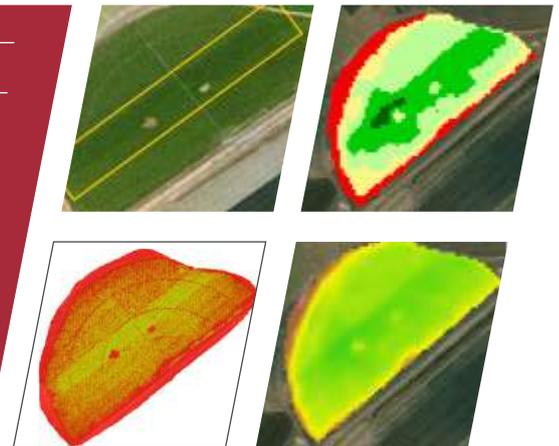
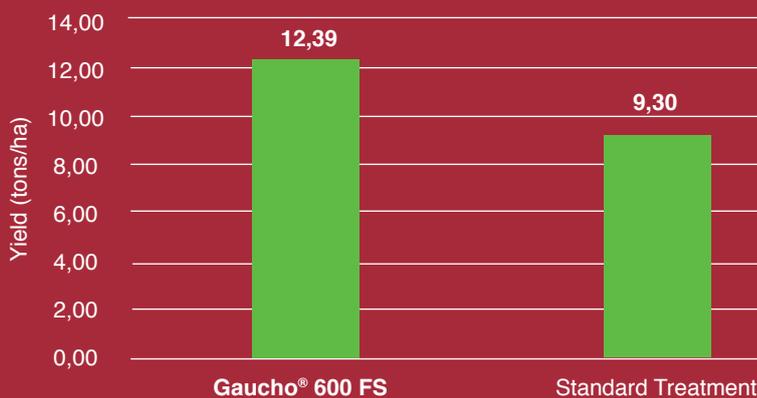
Demonstration trials have been conducted with **Gaucho® 600 FS** comparing it to other standard insecticides in the market. **Gaucho® 600 FS** over the past five seasons has proven to be the most effective insecticide seed treatment, particularly in high MSV pressure areas.



The graph on the left-hand side shows the increase or decrease in percentage of yield of **Gaucho® 600 FS** and other standard insecticide seed treatments compared to an untreated control.

**Gaucho® 600 FS** consistently performed better than the other treatments available on the market.

An in-depth look at a trial conducted in the Thabazimbi area shows the benefit of **Gaucho® 600 FS** in a high pressure scenario. **Gaucho® 600 FS** was compared to a standard insecticide treatment. A drone image from the air clearly shows the healthier and darker green portion of the field where **Gaucho® 600 FS** was used as a seed treatment. Climate Fieldview's field health index as well as the vegetation index show the same outcome. Ultimately this improvement in plant health leads to an increase in yield of 25% or 3.09 tons / ha compared to the standard treatment.



**Gaucho®** Reg. No. L7849 (Act No. 36 of 1947). **Gaucho®** contains Imidacloprid (Harmful). **Gaucho®** is a registered trademark of Bayer AG, Germany. Use strictly according to instructions on label.

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