GRONIC

NATURE LED INNOVATION

@GronicCo

BE ORGANIC

About us

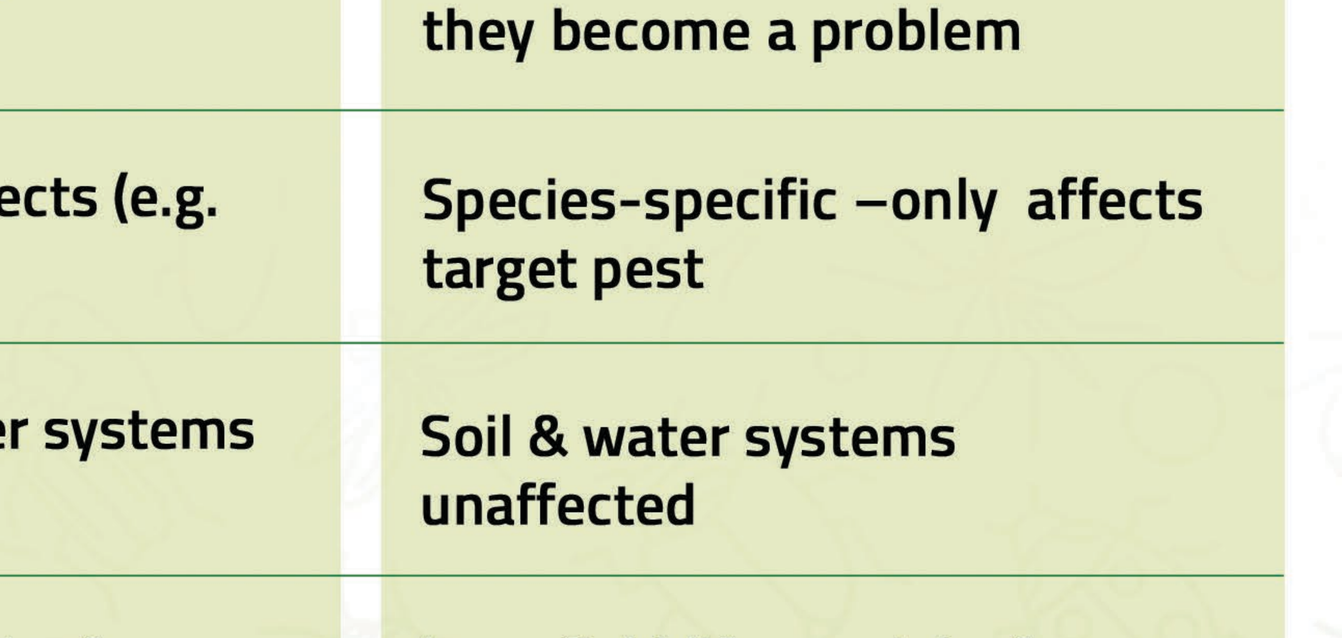
We are a customer-oriented company with over 10 years of experience in developing, producing and supplying safe green solutions for agriculture. We specialize in supplying Baculoviruses semi-chemical lures and traps to monitor insect pests and promote sustainable Integrated Pest Management (IPM) within agricultural, horticultural, storage and urban setting. Our goal is to promote a more effective, economical and environmentally friendly approach to pest management by incorporating sound IPM principles and science in the monitoring systems that we offer. We are also able to offer our customers help with pest identification, advice on suitable control strategies and effective practices that can be carried out to minimize outbreaks.

We are able to offer our customers the full package required to carry out an efficient pest monitoring program. In addition to our wide range of pheromone lures and Baculoviruses, we offer the most suitable traps for each pest species and supply our customer with all the relevant information, advice and documentation needed to manage their pest problems. Management decisions are only as good as the data that they are based upon. If a well- designed monitoring program is carried out the information recovered will be accurate and the decision on when to time a spray to catch exposed pests, for example, will be correct

Why use our products?

All the products that we offer are based upon research, trial results, and customer feedback. We are constantly striving to develop products and solutions for new and emerging pests while also improving upon our current range when the opportunity arises. As we begin to see more evidence of regional that we remain abreast of those knowledges and offer the most suitable lure for a species in a particular region to the benefit of our customers. We use feedback and trails from across the globe to determine the best solution for a particular pest.

	Conventional pesticides	Gronic solutions
Safety	Poisonous& possibly toxic, ahuman health concerns.	Completely nontoxic; safe for humans pets and environment.
Residue	Spray 100% of crop high residue risk	Contacts < 1% of crop –zero residue risk
Approach	Reactive – chasing after pests	Proactive – control pests before they become a problem
Collateral damage	Kills beneficial insects (e.g. bees, ladybugs)	Species-specific –only affects target pest
Environmental footprint	Risk to soil & water systems	Soil & water systems unaffected
Efficacy	Short field life, high of resistance	Long field life, no risk of resistance.



BIOSAFE

Biological control with beneficial insects makes dollars and sense, even in chemically sprayed fields. Growers using Rincon-Vitova's Trichogramma and other beneficials (all natural, none genetically engineered) to augment indigenous natural enemies can expect to improve profits by reducing or eliminating pesticide use.

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Residue problems, costs of sprays, scheduling sprays around irrigations and when workers are not present, health and safety liability risks, even insurance costs, may be reduced when beneficial insects assume more pest management chores.

In many cases, crop yield and quality improve as previously unrecognized adverse pesticide effects on plant physiology disappear. Resistance problems, and outbreaks of secondary pests like spider mites, whiteflies and leafminers are avoided. There are also public relations and marketing benefits from using this "green", environmentally-friendly alternative to conventional chemical control.

Section 1- TricoSafe

Biological protection against Lepidoptera pests

Trichogramma is an effective natural enemy of over 200 pest moth species (cutworms, fruit worms, leaf worms, leafrollers, loopers, armyworms, borers etc.), preventing ravenous worms (caterpillars) from hatching out and devouring crops.

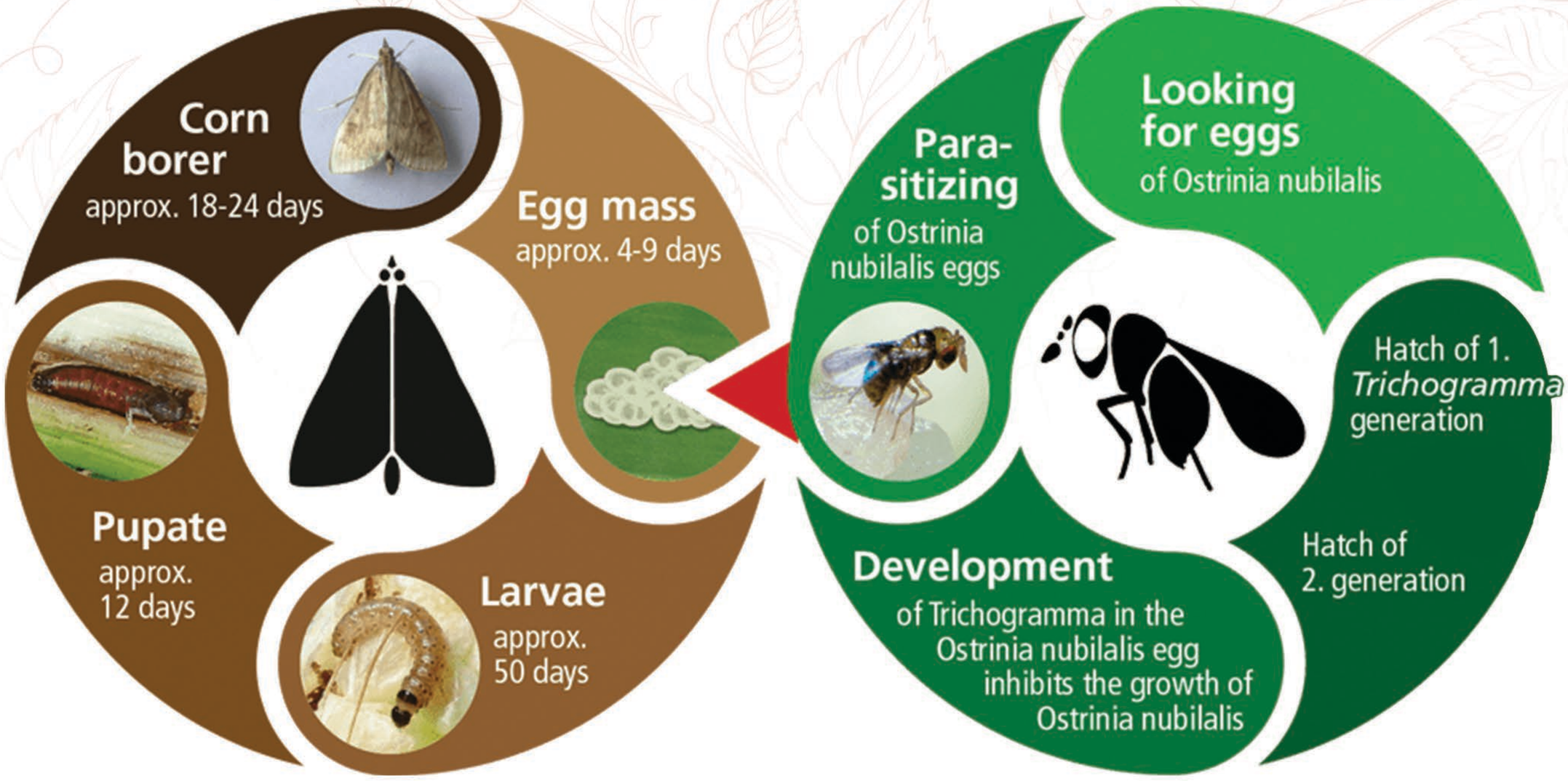
Trichogramma larvae eat out the insides of pest eggs, pupate, and cut an exit hole in moth eggshells for winged adults to squeeze through. They have a size of approx. 0.5mm. Trichogramma brassicae is a so called parasitoid of eggs. It means that it lays its eggs into the egg of a host (e.g. in the eggs of borers), and as a result the host is killed during development of the parasitoid inside the host egg. Applying large numbers of Trichogramma in the maize field, a large proportion of Lepidoptera eggs is parasitized by Trichogramma females and thus killed.

Spreading large numbers of Trichogramma at the right time allows parasitizing by females of approx. 0.5 mm in size a very large number of Lepidoptera eggs, and therefore their neutralization.

To spread Trichogramma the product is available cards form:

- **TRICOSAFE – cards.**

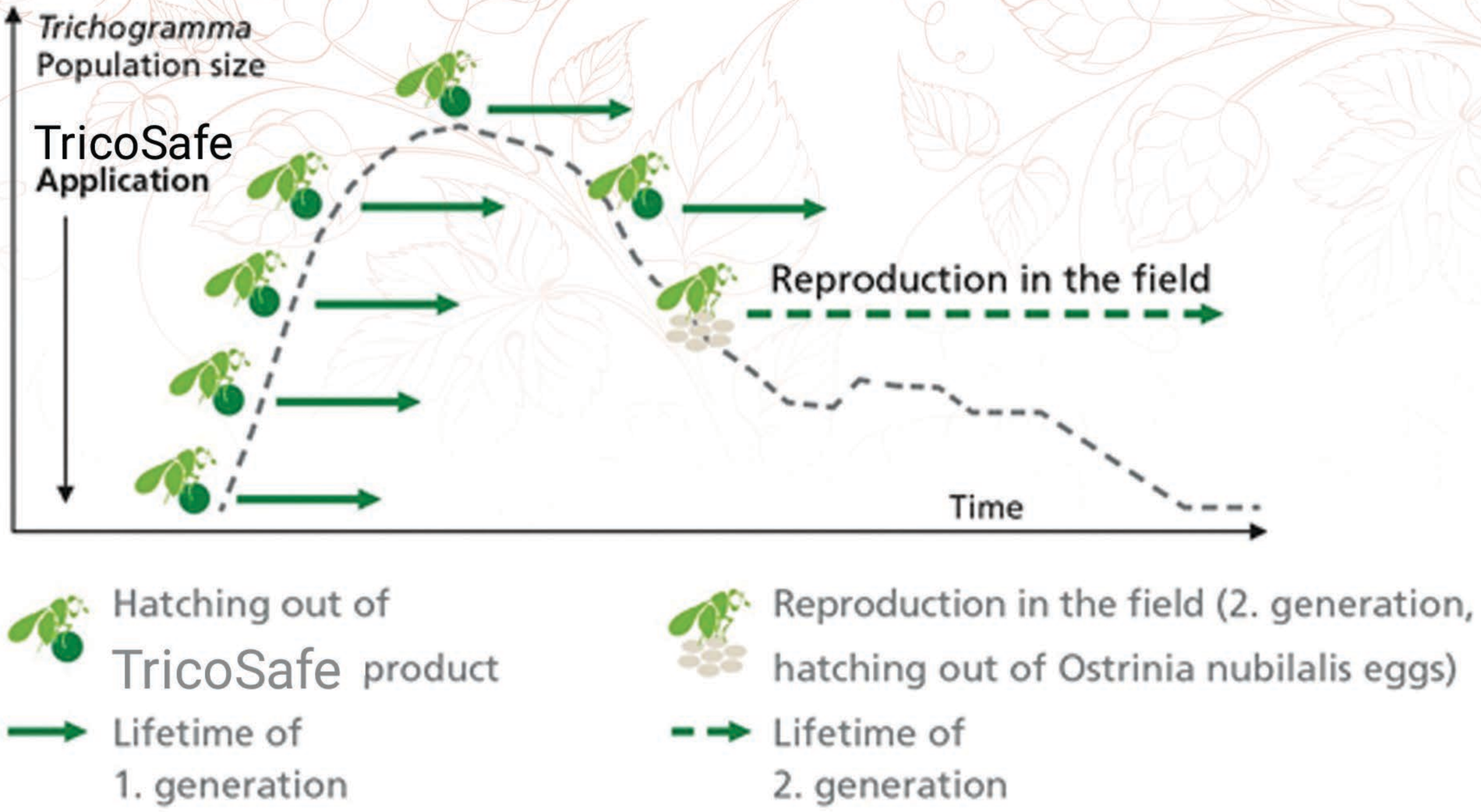
How Trichogramma affects Lepidoptera?



After the application of TRICOSAFE product, the Trichogramma hatch in the field. After mating, the search for egg masses of the corn borer begins. The eggs are parasitized by Trichogramma. Development of Trichogramma in the egg inhibits the growth of Lepidoptera: instead of Lepidoptera larvae, Trichogramma (2. Generation) will hatch and the cycle starts again.

If the development process of Lepidoptera is not interrupted, larvae hatch after 4-9 days and feed on the corn cobs and stalks, and then they pupate at the bottom of the stalk. Lepidoptera hatches out of the pupa and starts laying new egg masses into the field.

What is the Trichogramma Effective Period?



Effective period results from the hatching period and the development cycle. In order to ensure the longest possible effective period, all our TRICOSAFE products contain Trichogramma eggs at minimum six different stages of their development. As the diagram shows, this way a hatching period of up to three weeks is achieved. Hatched Trichogramma parasitize Lepidoptera eggs. From parasitized eggs after approx. 12 days Trichogramma hatch again, and they look for even more Lepidoptera eggs to parasitize them. Thus, the infestation and expansion of Lepidoptera expansion can be significantly reduced.

As it is not possible for these great amounts of Trichogramma to hibernate, it is necessary to release them in large amounts on an annual basis. Only this way a sufficiently large population can be obtained to ensure a satisfying effect in controlling Lepidoptera.

Our TRICOSAFE-Product

Application of Trichogramma takes place using TRICOSAFE card developed by Gronic. This form of product has proven itself immensely in practice for many years and they obtain great results in official experiments. TRICOSAFE in its form is particularly ecological, as its ingredients are fully biodegradable under field conditions.

Easy Handling

Simple and Cost-effective manual application!

Reliable Quality

Good protection for beneficial organisms against ultraviolet and infrared radiation.

Optimum Protection

Best protection of Trichogramma against rain, sprinkling and natural enemies!

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