



Tricholine Vitis

**YOUR ALLY AGAINST
THE EUROPEAN
GRAPEVINE MOTH**

ABIM 2019

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European grapevine moth

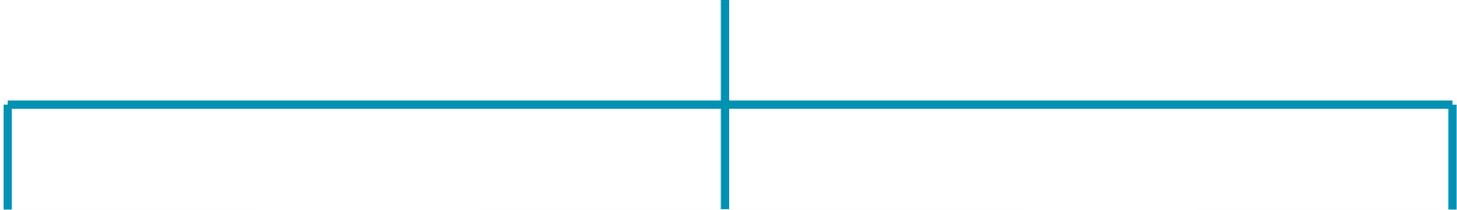
- Wine quality strongly depends on the grape quality.
 - Grapevines are attacked by a wide diversity of tortricid moths.
 - Adult females lay egg clusters on or close to flowers and grape bunches
 - The eggs hatch into pale-coloured larvae that feed predominantly on flowers and developing fruit or on leaves.
 - Second and third instar larvae are the most damaging, due to their increase in numbers throughout the season.
 - In addition to direct-feeding damage, larvae produce wounds subsequently infected by bunch rot fungi, as well as spoilage yeasts and bacteria. Their action can further attract infestations by fruit flies (*Drosophila* spp.). several species are carriers of *Botrytis*
 - Economic losses can be 13.3% for second generation and 27% for third *



Three species of grapevine moth controlled



Tricholine Vitis



Lobesia botrana



Eupoecilia ambiguella



Argyrotaenia ljungiana



The dispenser: a concentrate of technology

- Eggs ready to hatch are placed inside the dispenser
- Bio-degradable (cardboard): no need to remove at the end of the season
- Water resistant
- Protection from the sun
- Protection against predators (ants)
- No need to prepare the application (ready to use)
- Fast to apply: 30 min/ha for 100 dispensers



Small exit holes prevent entry of ants



Tricholine Vitis

- Contains:
 - Trichogramma sp.
- Use:
 - Vines, against grapevine moths
- Mode of action:
 - Ovicide action, by parasitism of the eggs
- Length of action :
 - Effective for several weeks from release

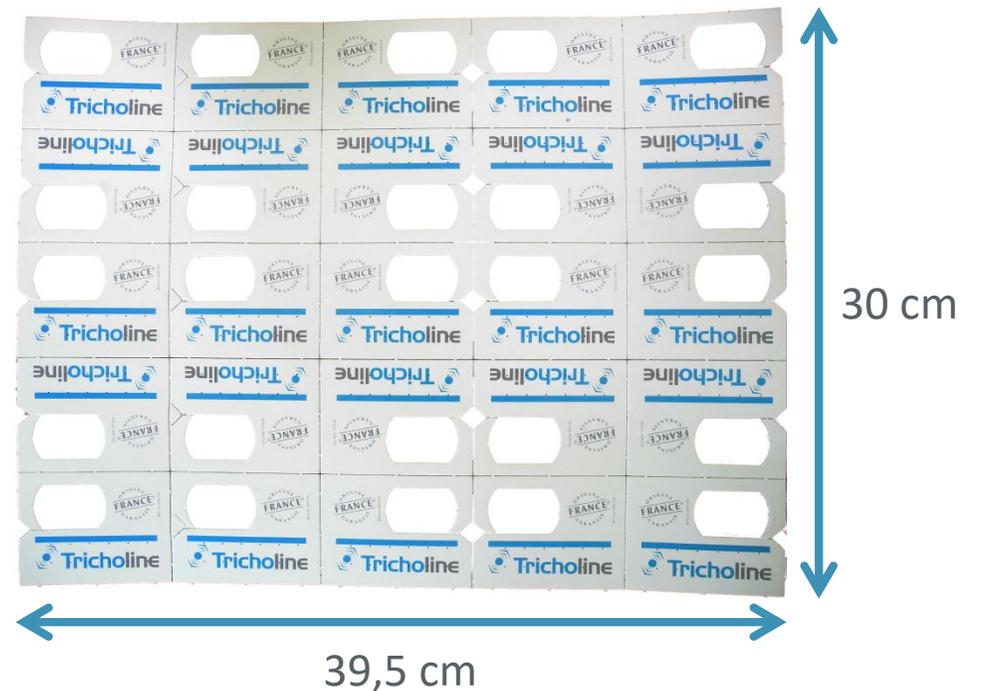
- Packaging :
 - Patented dispenser
- Concentration :
 - 5000 active individuals per dispenser
- Rate of use :
 - 100 dispensers per ha
- Registration :
 - Ask your representative



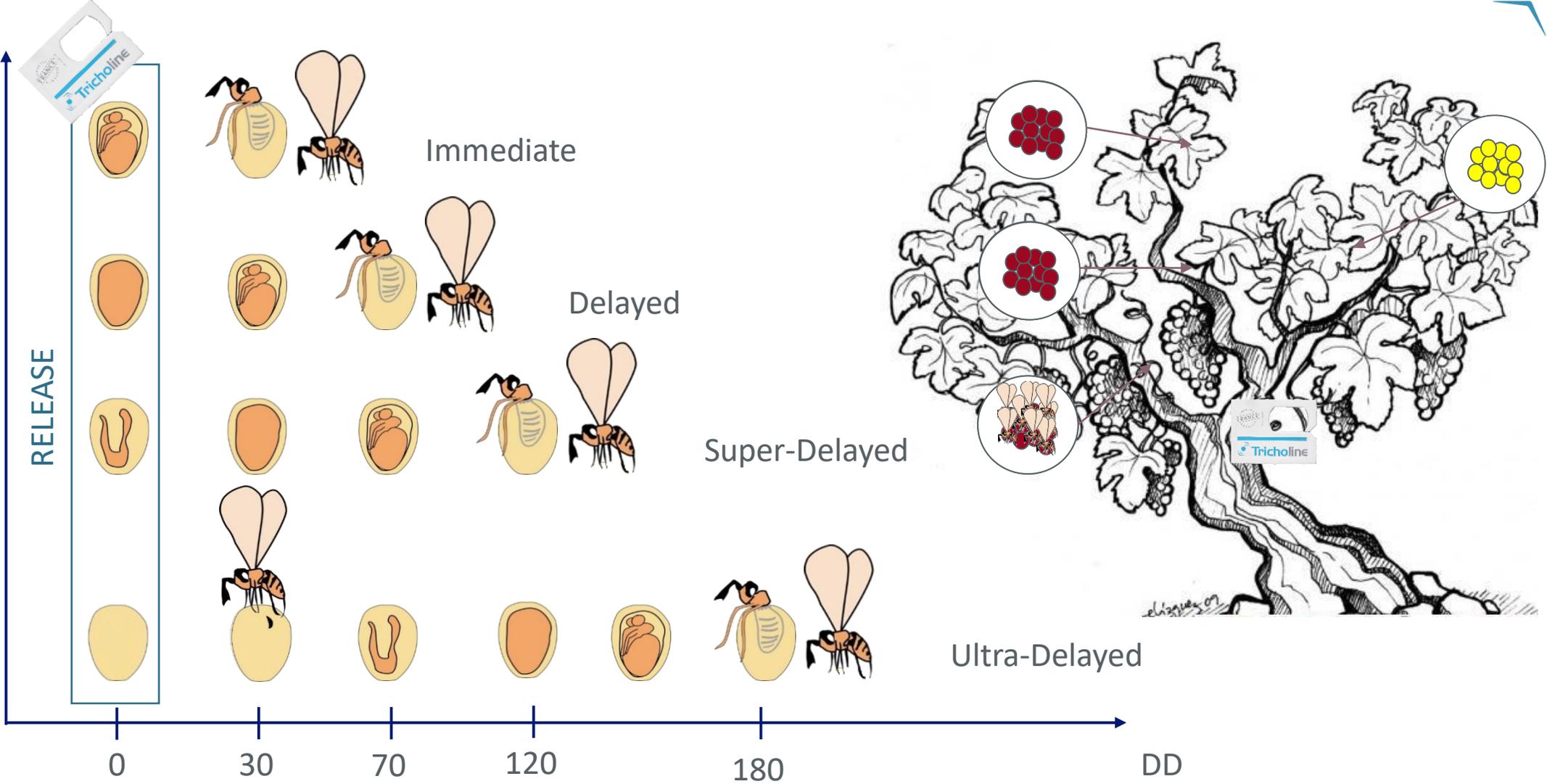


Bioline Dispenser

- Hanging unit in the vineyard:
 - One dispenser
- Primary unit supply:
 - A plate of 25 dispensers
 - Each dispenser contains 5000 individuals
 - 4 hatching waves: for a progressive emergence and a long lasting action
- Sales unit:
 - One hectare
 - Corresponding to 100 dispensers (4 plates of 25 dispensers)



How Emergence waves work in Bioline products





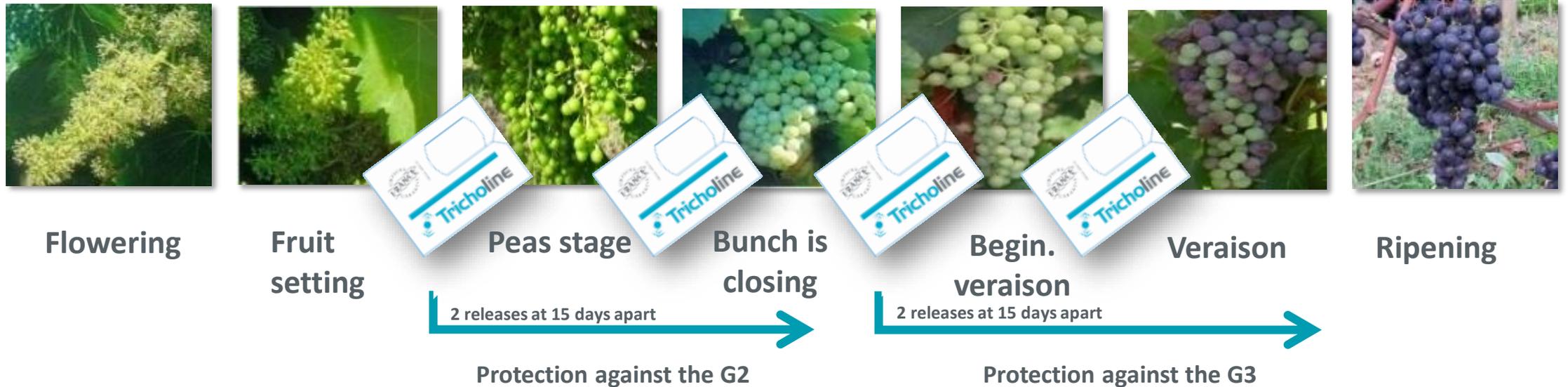
Model program



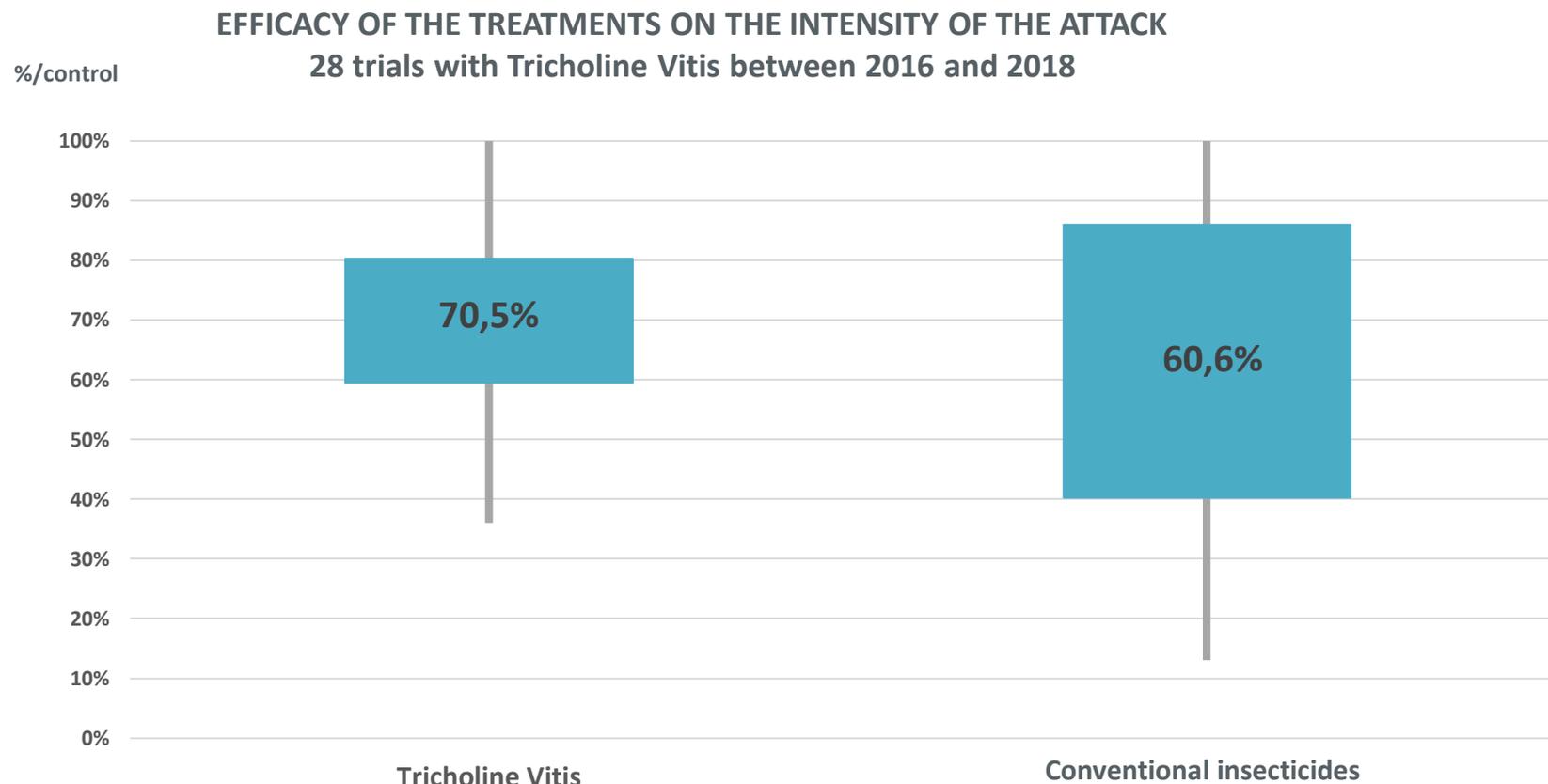
2 releases of 100 dispensers 15 days apart

Apply Tricholine Vitis at the beginning of the flight*, then 15 days after

* 4 to 7 days max after the beginning of the flight



Mean efficacy over 3 years of 70.5% - All trial results combined



Situations with variable pressures, and all moths combined. Be careful, this is a collection of test results that may be non-concomitant.

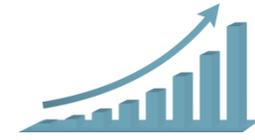


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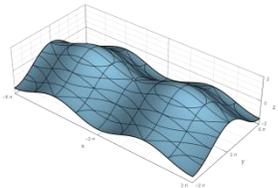
Multi-target

Effective on the 3 main moths
Can be used on all 3 flights



Effective

Effective: 70% efficacy
Ovicide: immediate prevention



Flexible

No minimum crop area required
Fast application
Consistent of protection
No need to prepare anything before the application
No delay before harvest or re-entry, nor non-treatment zone



Organic

Can be used in Organic farming
No risk for the users or for the neighborhood

Thank you for your attention

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