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# Organic pest control

## past - today - in future

Center of Excellence

for bionomic plant protection


Contact us:

organics international
Tel: 09074 - 32 08
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# past

- **2500 v. Chr.** frist damage was find in ***Ur***, it was a goat .
- **2000 v. Chr.** in this period ***Hamurapis***, was find the first regulation for the crops at the pest control
- **234 v. Chr.** ***Marcus Portius Cato*** explain the pest control with oily products at the first time
- **101 n. Chr.** China was using soap for pest control
- **1690 n. Chr.** ***La Quintinye*** explain in his book the pest control on pears with a substance from tobacco
- **1761 n. Chr.** ***H. H. Schultheß*** from Zuerich have given the first directive to the farmers to steep in corrosive fluid by grain

**Quelle:** *4500 Jahre Pflanzenschutz,* Dr. phil. habil. Mayer (1959)

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# Today

- **question of faith**

  **between the chemical industry an organic company the**

  **have the small company possibilities for a real pest control**

- **example** ***professional crop***

  **Western Corn Rootworm** *Diabrotica virgifera virgifera*

  **(Maiswurzelbohrer)**

  **Wolly Apple Aphid** *Eriosoma lanigerum* **(Apfelblutlaus)**

  **Tuta absoluta (Tomatenminiermotte)**

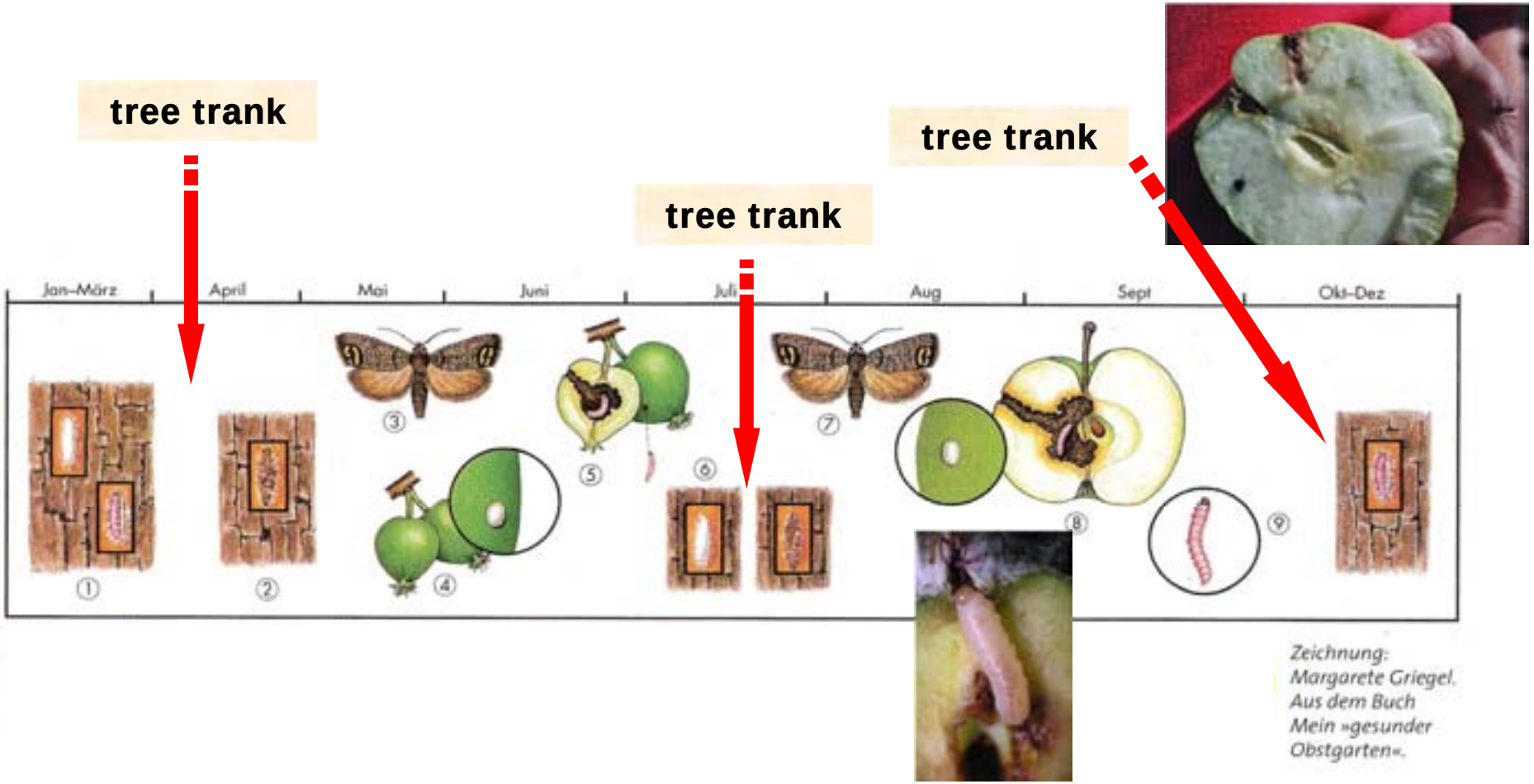
  ***hurticulture***

  **Codling moth (Apfelwickler)**

  **Cydia pomonella (Obstmade)** ➔ **Eurefruta Modena**

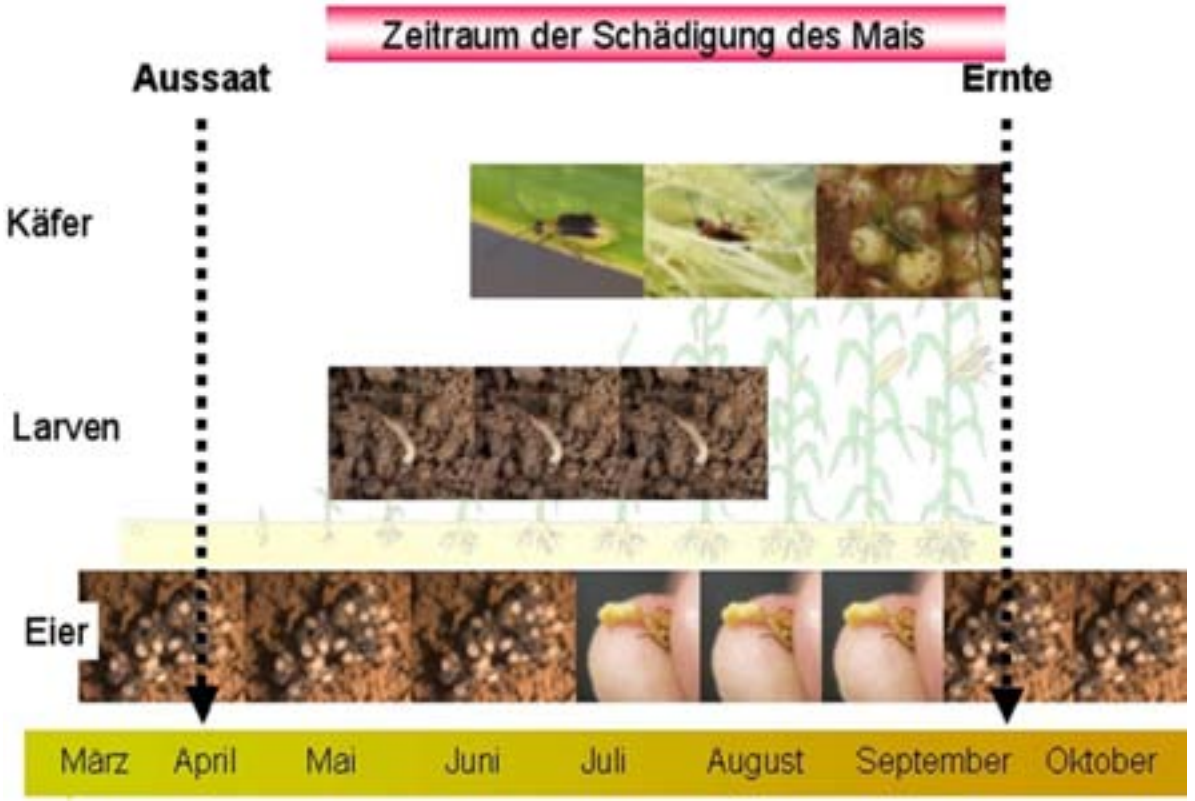
## Characteristic

**Codling moth** *(Laspeyresia pomonella)*



# Characteristic

## Western Corn Rootworm *(Diabrotica virgifera virgifera)*




Quelle: Bild - Google

## Characteristic

**Tuta absoluta** *(Tomatenminiermotte)*

The moth is favouring the leave and also the little green fruits with the eggs. Mostly you find the eggs at single and sometimes in a group of 5 pieces. This pest is only on tomatoes, aubergine, sweet paper and potatoes.

Tests to day in North Africa and the results are encouraging.

**question ???**

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**What is the different between**

**fruit & vegetables**

**and**

**flowers**

**by the export to the European Union**

**???**

# Products

professionals

horticulture


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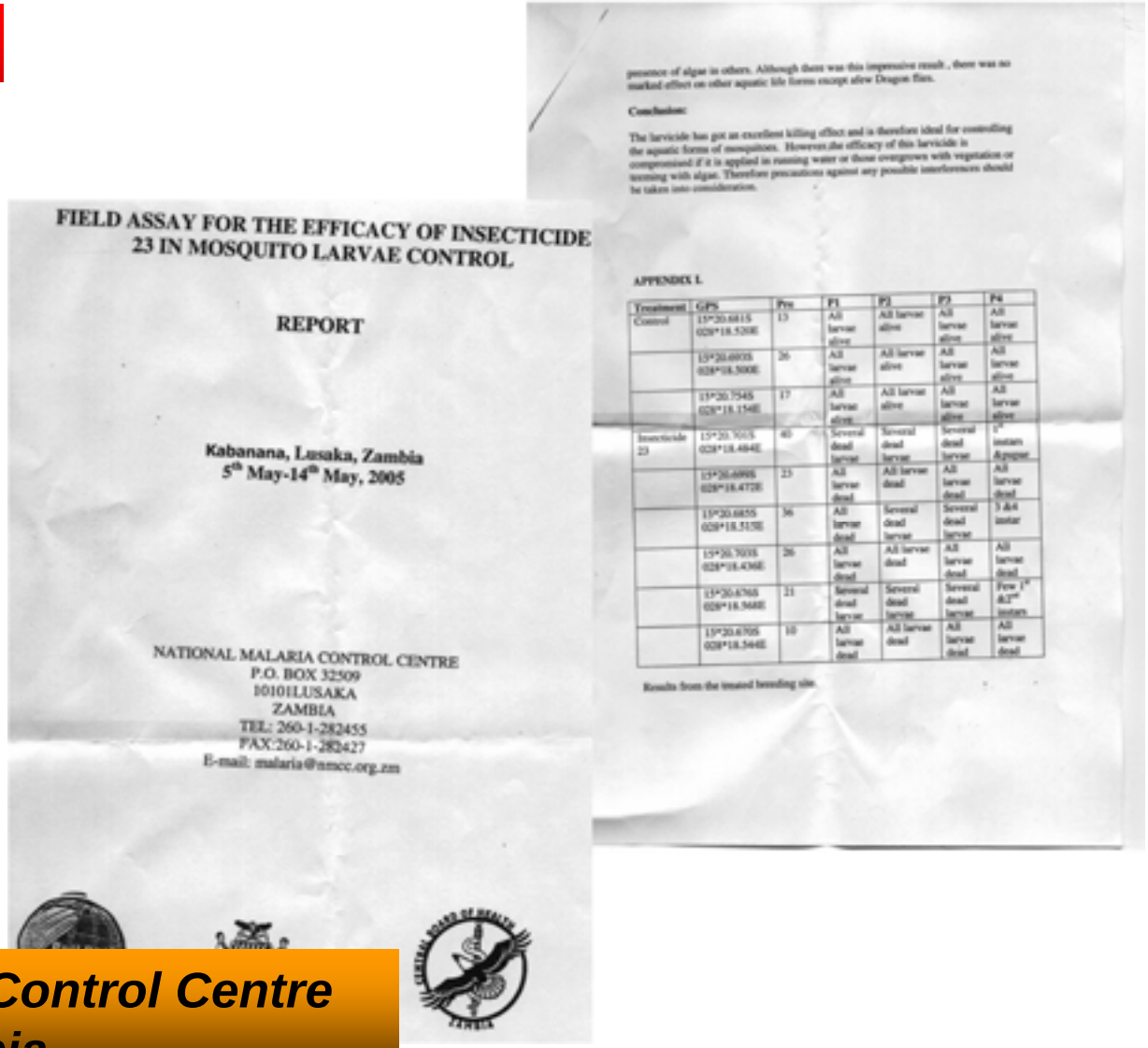
# Internationale Tests



presence of algae in others. Although there was this impressive result , there was no marked effect on other aquatic life forms except afew Dragon flies.

**Conclusion:**

The larvicide has got an excellent killing effect and is therefore ideal for controlling the aquatic forms of mosquitoes. However,the efficacy of this larvicide is compromised if it is applied in running water or those overgrown with vegetation or teeming with algae. Therefore precautions against any possible interferences should be taken into consideration.

**APPENDIX I.**

| Treatment | GPS | Pre | P1 | P2 | P3 | P4 |
|---|---|---|---|---|---|---|
| Control | 15°20.6415 028°18.520E | 13 | All larvae alive | All larvae alive | All larvae alive | All larvae alive |
| | 15°20.6893S 028°18.509E | 26 | All larvae alive | All larvae alive | All larvae alive | All larvae alive |
| | 15°20.7545 028°18.154E | 17 | All larvae alive | All larvae alive | All larvae alive | All larvae alive |
| Insecticide 23 | 15°20.7015 028°18.484E | 40 | Several dead larvae | Several dead larvae | Several dead larvae | 1st instars &pupae |
| | 15°20.6898S 028°18.472E | 23 | All larvae dead | All larvae dead | All larvae dead | All larvae dead |
| | 15°20.6855 028°18.515E | 36 | All larvae dead | Several dead larvae | Several dead larvae | 3 &4 instar |
| | 15°20.7035 028°18.436E | 26 | All larvae dead | All larvae dead | All larvae dead | All larvae dead |
| | 15°20.6765 028°18.566E | 21 | Several dead larvae | Several dead larvae | Several dead larvae | Few 1st &2nd instars |
| | 15°20.6705 028°18.544E | 10 | All larvae dead | All larvae dead | All larvae dead | All larvae dead |

Results from the treated breeding site.

**FIELD ASSAY FOR THE EFFICACY OF INSECTICIDE 23 IN MOSQUITO LARVAE CONTROL**

**REPORT**

**Kabanana, Lusaka, Zambia**
**5th May-14th May, 2005**

NATIONAL MALARIA CONTROL CENTRE
P.O. BOX 32509
10101LUSAKA
ZAMBIA
TEL: 260-1-282455
FAX:260-1-282427
E-mail: malaria@nmcc.org.zm

***National Malaria Control Centre Zambia***

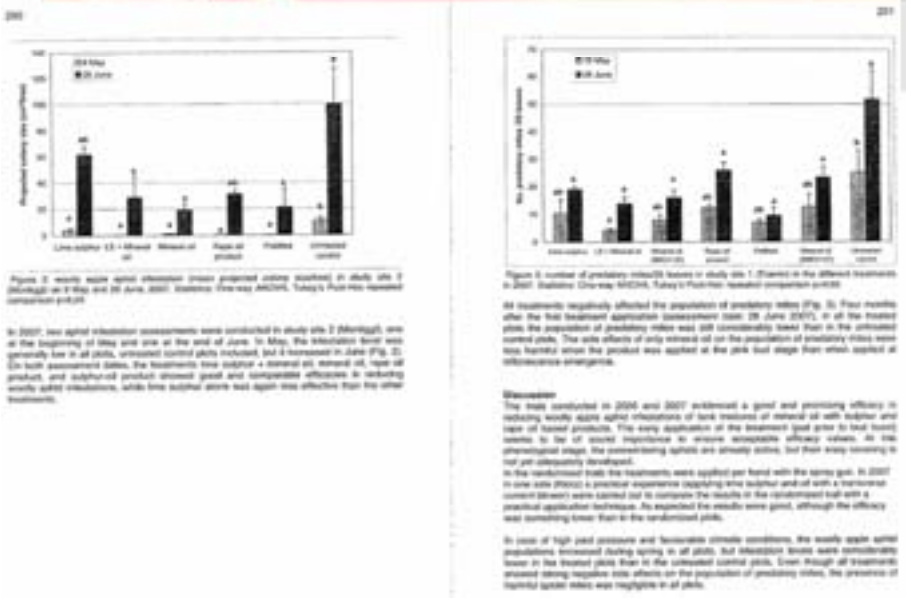
# Internationale Tests

**Apfelblutlaus** *(Eriosoma lanigerum)*

Proceedings to the Conference
from February 18th to February 20th, 2008 at
Staatliche Lehr- und Versuchsanstalt
für Wein- und Obstbau Weinsberg / Germany

eco·fruit

13th International Conference
on Cultivation Technique
and Phytopathological Problems
in Organic Fruit-Growing



***University Laimburg (Italy)***

***Dr. M. Kelderer, Research Station Laimburg***

# Bienentest Uni Hohenheim 2006

**von** Peter Rosenkranz <peter.rosenkranz@uni-hohenheim.de>
**Datum** Montag, 9. Oktober 2006 17:45
**an** vaas-ruchti@t-online .de
**Betreff** Lignotec-Test

Sehr geehrter Herr Vaas-Ruchti,

anbei ein kurzer Versuchsbericht von Herrn Dr. Liebig:

Lignotec (FE-070) wurde Ende September an 2 brutfreien Völkern getestet. Die Völker saßen auf 10 Waben und zählten zwischen 5000 und 7000 Bienen. Jedes Volk wurde mit 150 ml Lösung (nach Vorschrift hergestellt) Wabe für Wabe eingesprüht.

Der Milbenfall wurde vor und nach den Behandlungen täglich erfasst. 5 Tage nach der Behandlung wurden die Völker zuerst mit Oxalsäure 3,5% und 4 Tage später mit Klartanlösung berträufelt. Ein fünftes Volk diente als Kontrolle und wurde nur mit Oxalsäure und Klartan behandelt.

Alle Völker wurden unmittelbar vor der Behandlung mit greenline 88 und vor der ersten Nachbehandlung mit Oxalsäure geschätzt.

Ergebnisse:
Die Berechnung des Wirkungsgrades bezieht sich auf den Gesamtmilbenabfall nach drei Behandlungen. Da die Völker brutfrei waren, kann für alle Behandlungen zusammen eine Wirkung nahezu 100% unterstellt werden.

Das Mittel wirkte sehr schlecht und hatte eine Wirkung von durchschnittlich 8%, Oxalsäure von durchschnittlich 75%.

**Wichtig:**
Die Behandlungen nässten die Bienen ein, was aber im Versuchzeitraum **keinen erhöhten Bienenabgang** zu Folge hatte.

Beste Gruesse
Peter Rosenkranz

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D-70593 Stuttgart
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Fax : *49-(0)711/459-2233

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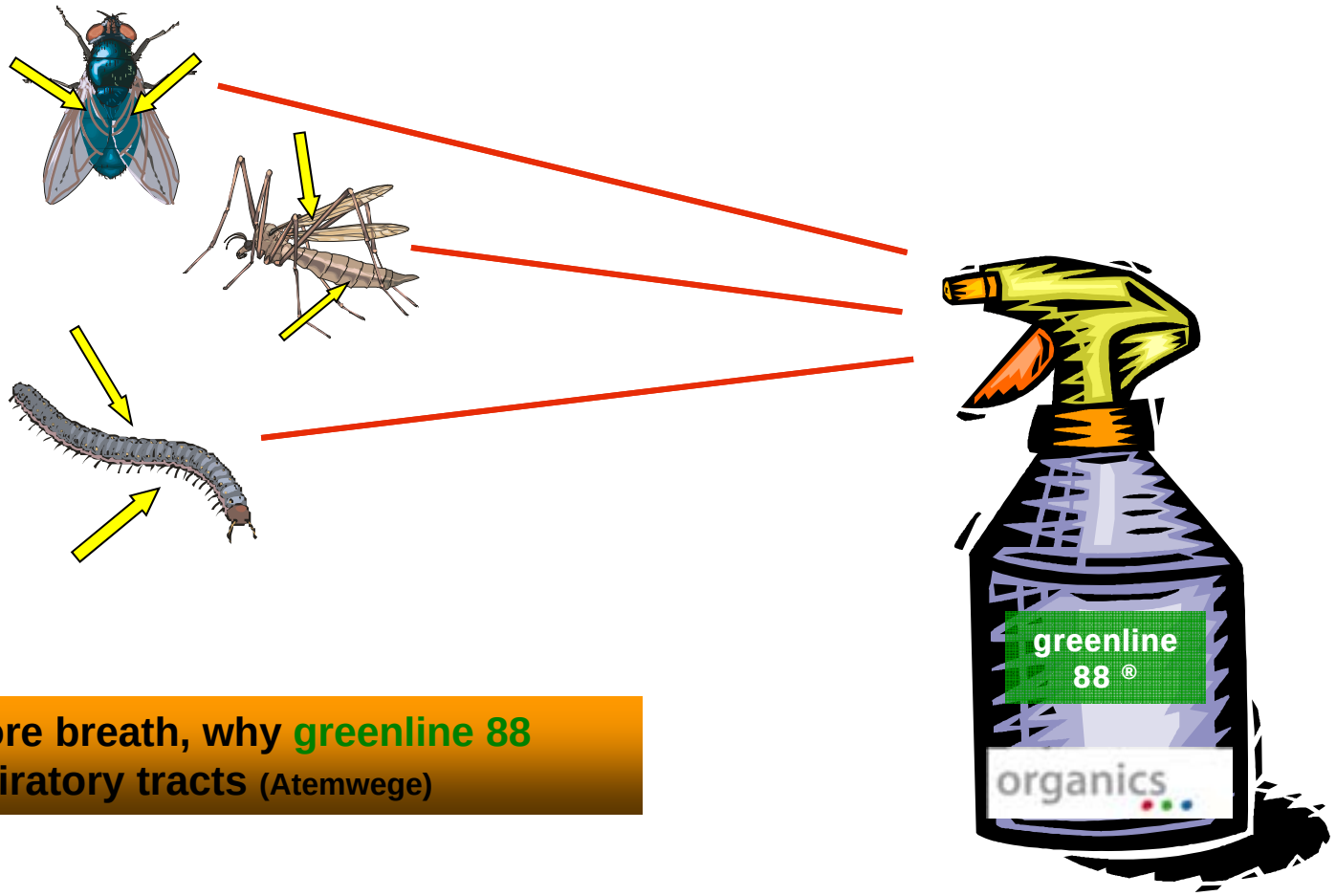
# The way of works

**is working only by contact**




**pests get no more breath, why greenline 88 to plug the respiratory tracts (Atemwege)**

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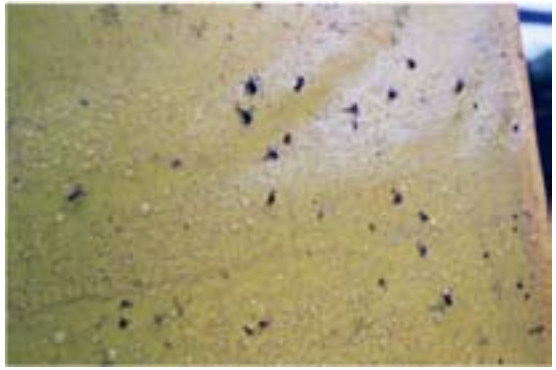
## other Pests

**aigenst:**

- ✓ **White Fly** *Trialeurodes vaporarium*
- ✓ **Louse (Mellon- od. Cotten)** *Aphis Gosiipy*
- ✓ **Spider mide** *Tetranychus urticae*
- ✓ **Red spider** *Tetranychus urticae*
- ✓ **Mosquito** *Aedes aegypti*
- ✓ **Larvas, Eggs,** *Anopheles Mosquitoes*
- ✓ **other Pests on fruit and vegetables**



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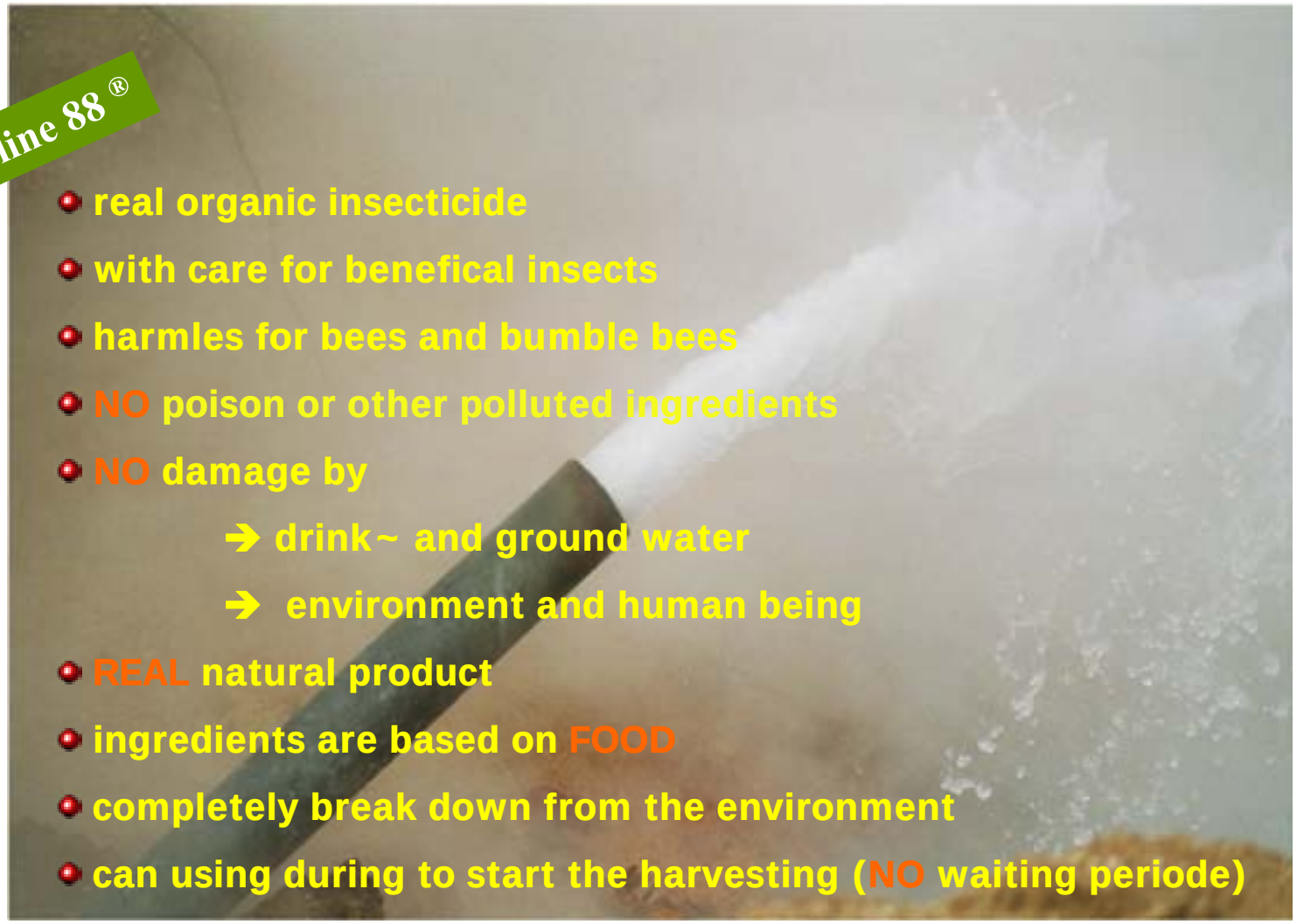
# In future

## Advantage

greenline 88 ®



- real organic insecticide
- with care for benefical insects
- harmles for bees and bumble bees
- NO poison or other polluted ingredients
- NO damage by
  - ➔ drink~ and ground water
  - ➔ environment and human being
- REAL natural product
- ingredients are based on FOOD
- completely break down from the environment
- can using during to start the harvesting (NO waiting periode)

# Registration & listet by FiBL

**Other advantage:**

greenline 88®

- organic liquid can use
  - ➔ after the EU 2092/1991
  - ➔ § 6a Absatz 4 Nr. 3 des Pflanzenschutzgesetzes
- using by commercial crops,
  *and also*
- in organic farming
- Fruit and vegetables are commercialization immediately after pest control

FiBL

Pflanzenschutzmittel

| P-1-2 Insektizide, Akarizide, Moluskizide | | | | |
|---|---|---|---|---|
| Handelsname | Zulassungs-nummer | Firma | Wirkstoff/Konzentration | Anwendungsgebiet/Bemerkungen |
| greenline 88 | gem. §6a Absatz 4 Nr. 3 PschG | organics Gbr | Pflanzliche Öle | Acker-, Gemüse- und Obstbau: Kohlfliege, Thrips, Weiße Fliege, Rote Spinne, Rapsglanzkäfer, Kohlfliege, Minierfliegen, Kohlblattlaus, Rüsselkäfer, Apfelwickler, Rapsglanzkäfer, Kartoffelkäfer, Tabakkäfer |

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# Treatment ➔ crops

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# Treatment ➔ crops

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## **Treatment** ➔ hurticulture

watering can

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# Localities

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# Quality control

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Wirtschaft vor Ort

Donau Zeitung

Gütesiegel für das Genießerhotel Lodner

Donau Zeitung

„o.k.-Gütesiegel" für die Gärtnerei Riß

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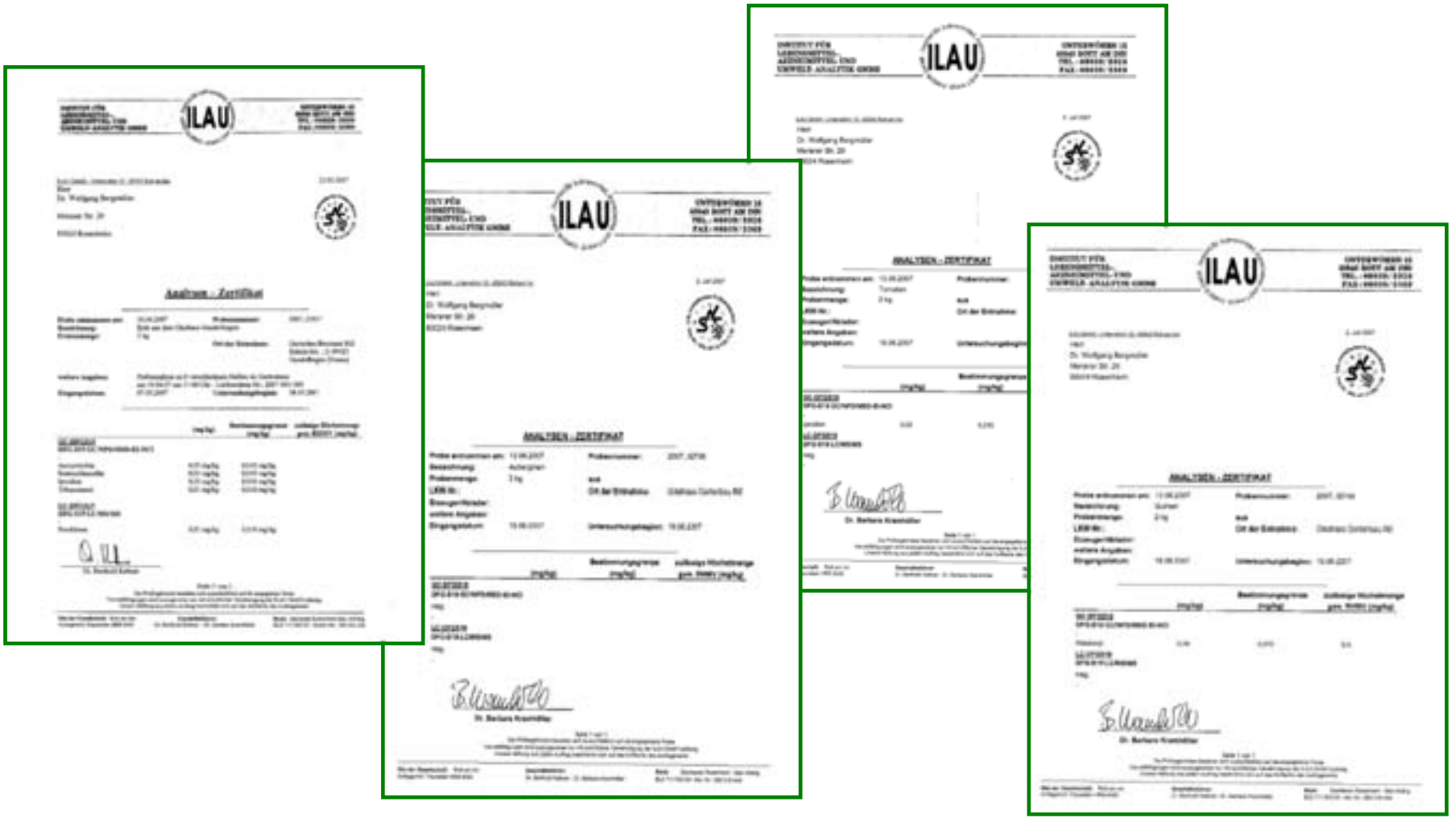
# Quality controll

## regular inspection



**since 2008**


## Education

- **principle analysis by pest**
- **to help by creating spray plan**
- **training from crops by using greenline 88®**
  - ➔ by *organics international* in Center of Excellence iGermany
- **structure of packing house and logistic centre**
- **assistance in creating to a residue lap *analysis***

  (residue for the export market)
  - fruit & vegetables
  - soil

# Report on the situation


Quelle: Greenpeace vom 18.02.2007

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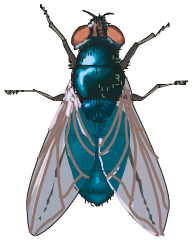
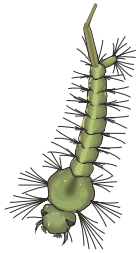
# Unique selling proposition (USP)

- is not necessary to need a bio certification
- no waiting period by harvesting
- commercial farmers by using also inside the residue guidelines
- fruit and vegetables has no problem by marketing in the EU
  - wholesaler
  - retailer
  - discounter





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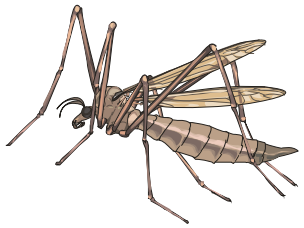
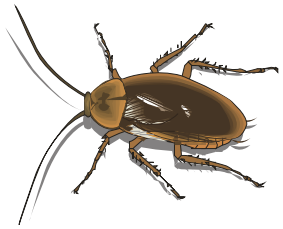
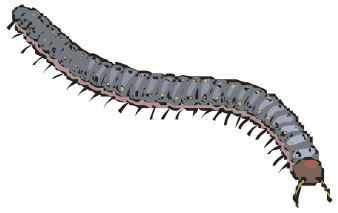


# International





- **organics international (Produktion + Vertrieb)**
- **organics international Schweiz (Vertrieb)**
- **organics international Tunesien (Produktion + Vertrieb)**
- **organics international Marokko ➔ Kooperationspartner**
- **organics international Griechenland ➔ Kooperationspartner**
- **organics international Italien ➔ Kooperationspartner**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