

## TREATMENT OF PESTS & DISEASES

Our main treatment for pests and diseases is through nutrition; as Chaboussou claimed in his **Trophobiosis Theory**:

*“The theory states that the susceptibility of a crop plant to pests and diseases depends on its nutritional state. Pests and diseases will not attack a healthy plant. The health of a plant is directly associated with its internal balance, which is constantly changing”*

For further reading about this see Trophobiosis PDF in web resources section

Our approach to pest/disease damages is focused **to prevent rather than treat** the problem; therefore we don't make any “hard” specific treatment for any of them as we are happy that levels are quite low without any significant damage.

It's good to mention that some of the previous deficiencies such as Zn encourage some pests because of physical features on plants not just chemical imbalance as the previous theory postulate (I,e, the gap of the wrinkles in leaves can be a niche to different pathogens).

Some of the mains pests and diseases are next:



### **CANKER**

The causes include such a wide range of organisms. In apple trees the common one is a fungi, **Neonectria galligena**

#### **Symptoms Treatment:**

- Cut off the branches damage to stop the development and spread in the orchard. Pare back the damaged area to cleanwood and apply Sulpho-Calcium paste enrich with Zinc covering the wound

#### **Preventive Treatment:**



- The addition of Sulpho-Calcium brew diluted with Supermagro biofertilisers monthly.
- Encourage **biodiversity of microbes** through the year

### **Ermine Moth**

The damage by moths is quite low in whole orchard, almost insignificant. Our intervention for this is by clearing manually the moth's nests in the trees; afterwards burn them.



### **FIRE BLIGHT**

The causal pathogen is a Bacteria, ***Erwinia amylovora***

All symptoms are above ground and are typically easy to recognize, mainly tissues affected by the symptoms of *Erwinia amylovora* include blossoms, fruits, shoots, and branches  
Preventive Biological Treatment: **Bacillus Subtilis, Salicylic Acid and Actinomicetes** through whole session.

In case to have some strong damage by fungi apply Vicoso brew enriched with Sulpho-Calcium brew (1%).

