

Potatoes late blight

Pulsowin Application

This software is intended to the technicians in charge of the potatoes fields protection. It allows to determine the contamination risks and helps the producer to take treatment decisions. The potatoes late blight is a **PULSOWIN** complement which settles the basis functions of agrometeorological data management..

Using principle:

The model is based on J. Ullrich and H. Schrodter works and on the carried out improvements by Denis Gaucher from ARVALIS (PREMIL). A PREMIL index is calculated each day. The first contamination is detected when the PREMIL cumulated index reaches the set-off threshold and the daily index for the pressure threshold of the disease. The producer must execute a treatment as soon as possible. The next contaminations are detected in the same way but with values of different thresholds.

Variety resistance:

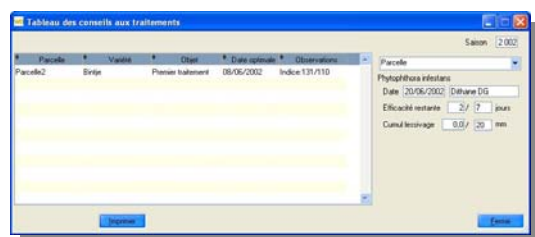
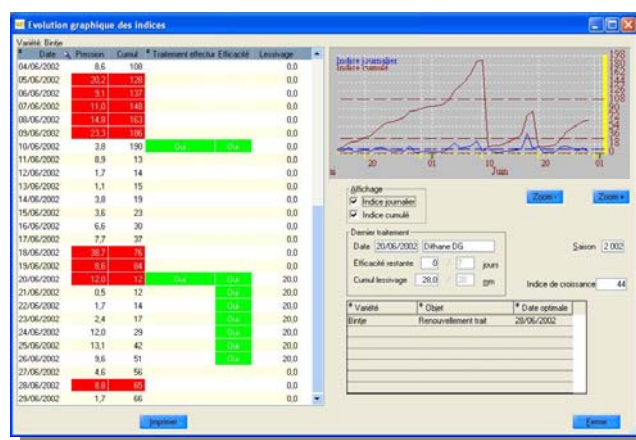
The last works have shown that the used thresholds depended on the planted varieties. The application integrates the catalogue of the thresholds per varieties by ARVALIS.

Treatments:

The contaminations are effective if the last treatment has been washed or isn't efficient. In this case, the producer must execute one treatment as soon as possible. The cumulated index returns to zero at the real date of treatment.

The recommended treatments are indicated in a board for all parcels. At each moment, the producer can know the risk values, the efficiency duration and the residual washing of the last treatment.

The realized treatment are declared at each parcel. The product characteristics, active matter, efficiency duration, washing are adjustable.



Irrigation:

The nocturnal irrigation can launch some contaminations. The model takes account of the effective hour of the irrigation in its calculations

The application delivers an help to the irrigation running in case of exceeding of tensiometer thresholds.

Growth index

Van Heemst index has been calculated automatically since the raising date.

Developed in collaboration with



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