Onion 2003

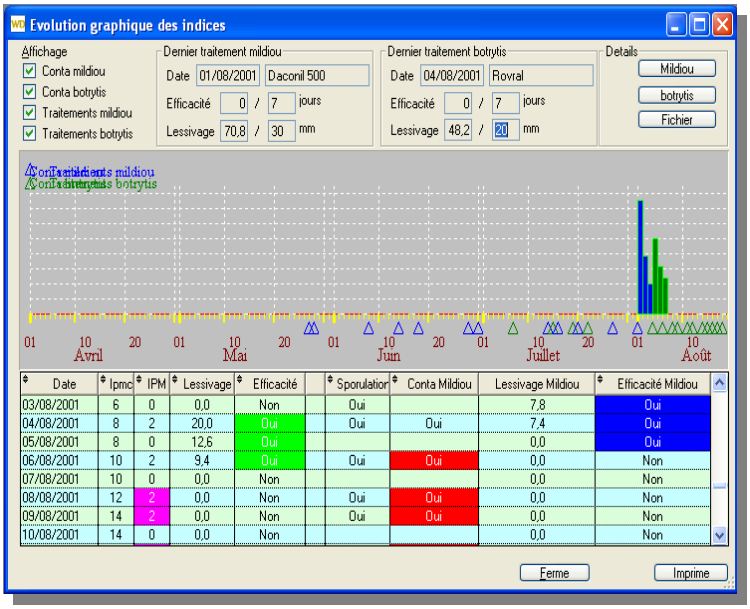
Onion Mildew and Botrytis

Pulsowin Application

This software is intended to the technicians in charge of the onion protection. It allows to determine the contamination risks and helps the producers to take the treatment decisions.
The **Onion 2003** module is a PULSOWIN complement which settles the basis functions of agrometeorological data management.

Onion Mildew

Each day, the model determines if the meteorological conditions have been favourable to the spores emission. During the useful life of spores, the model searches the new contaminations.



Onion Botrytis

If the IPMC cumulated index reaches the set-off threshold, the first treatment is recommended.
The next treatments will be recommended if the daily index of disease pressure is greater or equal to 1.

Treatments :
The recommendation of treatment is effective if the last treatment has been washed or isn't efficient. In this case, the producer must execute a treatment as soon as possible.
The recommended treatments are indicated in a board of 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 treatments are declared at each parcel. The product characteristics, active matter, efficiency duration, washing are adjustable.

Characteristics:
Used hourly measurements : temperature, humidity, dew detector

Bibliography
The mildew model is based on works of :
G.D. Jesperson & J.C. Sutton DOWNCAST, 1987
O. Huchette and B. Guerber-Cahuzac INFO-CTIFL Avril 2002
The botrytis model is based on works of :
J.C. Sutton, T.D.W. James and P.M. Rowell BOTCAST, 1986
P.C. Vincelli and J.W. Lorbeer BLIGHT ALERT, 1988
M.L. Lacy and G.A. Pontius SIV 1983
O. Huchette and B. Guerber-Cahuzac BOTIPIS INFO-CTIFL Mai 2002

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