



# Grower Summary

## **CP 127a**

MORPH disease models –  
extracting algorithms from  
the MORPH software

Final 2018

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**Project title:** MORPH disease models – extracting algorithms from the MORPH software

**Project number:**

**Project leader:** Rosemary Collier, University of Warwick

**Report:** Final report, July 2018

**Previous report:** None

**Key staff:** Richard Reader

**Location of project:** University of Warwick

**Industry Representative:**

**Date project commenced:** 1 October 2017

**Date project completed** 31 March 2018

**(or expected completion date):**

# **GROWER SUMMARY**

## **Headline**

Algorithms for six of the disease forecasting models in MORPH have been extracted from the software and are available for development in new formats.

## **Background**

The MORPH software is very old and as newer versions of WINDOWS appear it is becoming harder to sustain. The aim of this project was to extract the algorithms for six of the disease forecasting models in MORPH so that these would be available to others for development into new formats.

## **Summary**

The algorithms were extracted for the following models:

- Alternaria (Dark leaf spot - *Alternaria brassicae*)
- BOTIPI (*Botrytis squamosa*)
- Milioncast (Downy Mildew – *Peronospora destructor*)
- Ringspot (*Mycosphaerella brassicicola*)
- White Blister (*Albugo candida*)
- White Blister 2 (*Albugo candida*)

## **Financial Benefits**

The major benefit of this project is that the algorithms will not be lost even if the MORPH software fails.

## **Action Points**

The algorithms are available to the industry for development in new formats.