#113-22-Bella Vista

Software

Software

Diagnóstico Express (Fast Diagnosis)

Corrientes   Agricultural Experiment Station: Bella Vista

Delssin Martin   3

Software, bell pepper, tomato, health, gray mold, necrosis, fungi, diseases,

https://goo.gl/LTHP9B

This solution arises from the need to assist technicians and farmers in recognizing the diseases that affect tomato and bell pepper crops. Consequently, we envisioned an innovative Project and created a free mobile phone and tablet application.

The INTA Bella Vista launched *"Diagnóstico Express"*, a new mobile phone application for Android OS, which provides information to recognize diseases in tomato and bell pepper crops. It is aimed at helping disease recognition using photographs that display the typical symptoms of the diseases that affect tomato and bell pepper crops in nurseries.

The Phytopathology Laboratory of the Bella Vista (Corrientes) Agricultural Experiment Station captured images from the Argentine northeastern production area.

This guide is available for technicians and farmers to help them recognize tomato crop diseases. It includes vector-borne diseases (bacteria, fungi and viruses) and non-vector borne diseases (physiological and phytotoxicity) that affect the crop at its different phenological stages. It also features the climatic conditions that favor disease development and determine disease management practices. The pictures display the symptoms that characterize every disease. They were taken by the Phytopathology Laboratory at INTA Bella Vista. The active ingredients listed in this App appear on the phytosanitary product guide 2015/17.

The App seeks to provide the community with multiple platforms to access the knowledge produced in the institution. International data report more than 1.2 billion App users, which allows to envision a completely different scenario when it comes to creating tools to communicate knowledge.

Integrated Disease Management (IDM) comprises sustainable practices for the environment and for human health, which improve the competitiveness and sustainability of productive systems. IDM includes different practices (monitoring, diagnosis, crop management and disease control), to sustain low disease incidence levels without economic impact. The App facilitates the early identification of the most common diseases that affect these two crops.

Once the App is launched, a plant image appears on the screen (tomato or bell pepper); the user may tap on the different parts of the plant and the App will display the relevant disease information.