

# Populationsmodell des Maiswurzelbohrers

T. Balschmiter

Julius Kühn-Institut, Institut für Strategien und Folgenabschätzung im Pflanzenschutz

tim.balschmiter@jki.bund.de

As part of a research project between the federal government of Germany and the state governments of Bavaria and Baden-Wuerttemberg about the western corn rootworm (*Diabrotica virgifera virgifera* LeConte) is a model created to show the population dynamics of the western corn rootworm. It is necessary for a realistic description of the abundance to identify and to estimate all important influencing factors affecting the occurrences of this pest. The relationship between these factors and the most important population

dynamic processes is mapped by mathematical and deterministic rules into the simulation model. In the project progression the model needs to be validated and if necessary modified. Moreover, a user interface for operating and control the corn rootworm model will be implemented as user-friendly website. The website is intended for plant protection consultants and farmers. It helps to predict, to identify, and to schedule monitoring dates and pest control dates.