



AI Detection of FAW

Global Validation



Objectives

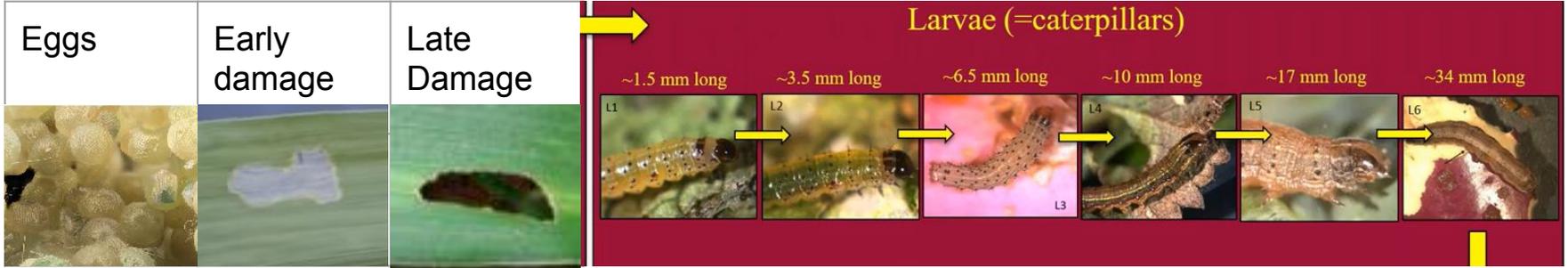
The Fall Armyworm (FAW) is one of the the most destructive pests with the capacity to feed on over 350 plant types causing crop damage over \$6 billion of corn crop loss in Africa, affecting over 600 million people, mostly subsistence farmers.

We believe that the FAW is detectable by anyone with a smartphone and GoMicro magnifier. [Preliminary tests](#) have proven this.

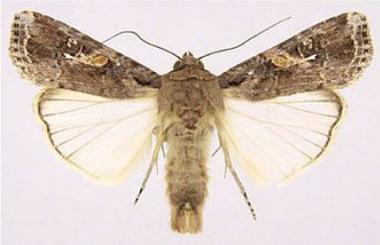
We are now in the process of validating this with FAW experts in Kenya, Sri Lanka, Pakistan, India, and Australia. We hope to exceed 90% accuracy in identifying FAW larvae from stage 1 to 6.

Detection Range

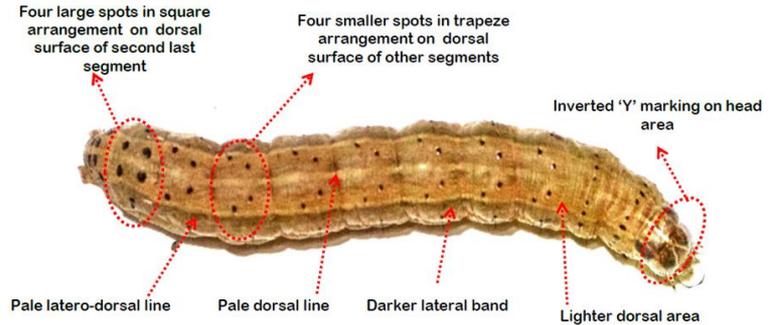
GO
MICRO



Moth



Where to look ?



Expert Validation



We are collaborating with FAW experts to validate the accuracy of using a combination of our clip-on magnifier and GoMicro Examine FAW detection app.

What we need from validators - test the app on 50 FAW and 50 non-FAW larvae and share the results with us

What we provide - FREE magnifier and app.
Postage will have to be paid

Why GoMicro AI is super accurate



We have developed patent-pending technology that removes shadows, creating imaging conditions on any phone that are ideal for AI analysis, making it possible to get to high accuracy¹ with a small set of images. By using the same imaging device for capturing images(for AI training) and deployment we gain further accuracy.

¹ Some researchers claim high AI accuracies with images obtained under lab microscopes, but fail in the field. Our technology helps create lab-quality imaging conditions in the field.

Our Plans

We would like to make our device and app available to all farmers globally. We are seeking partnerships with NGOs, Government, and Agricultural agencies to sponsor and distribute the magnifiers (estimated to cost less than \$1). The AI detection will be provided free of charge to farmers.

The collaborations that we build through this project will then be extended to other pest and leaf disease issues.

Validation



Our validation partners

- Need to have an institutional affiliation
- Access to FAW and non-FAW larvae
- Able to complete evaluation within a week

If you wish to evaluate

<https://www.gomicro.co/faw-detection-evaluation/>

Our growing list of validators....

[Sharanu D](#) Agriculture University, Karnataka India

[Mustafa N](#) Agricultural Extension, Sind Pakistan

[Elders Ltd.](#) Agriculture Company South Australia

[Adama Ltd.](#) Agriculture Company South Australia

[Prof.Wasantha](#) University of Ruhuna, Sri Lanka

[Ranila T](#) Bours Ltd. Sri Lanka

[Steve A](#) Department of Agriculture Kenya

[Emily O](#) FAW Researcher, Kenya

GoMicro Team



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AI Applications Development Manager
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[Malisha](#)
AI Engineer



Rob Lewis · 1st
Director at Science Without Bounds Pty Ltd
Greater Adelaide Area · 500+ connections · C

[Prof. Lewis](#)
Chairman

Based in [Tonsley](#)
Innovation District
South Australia

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