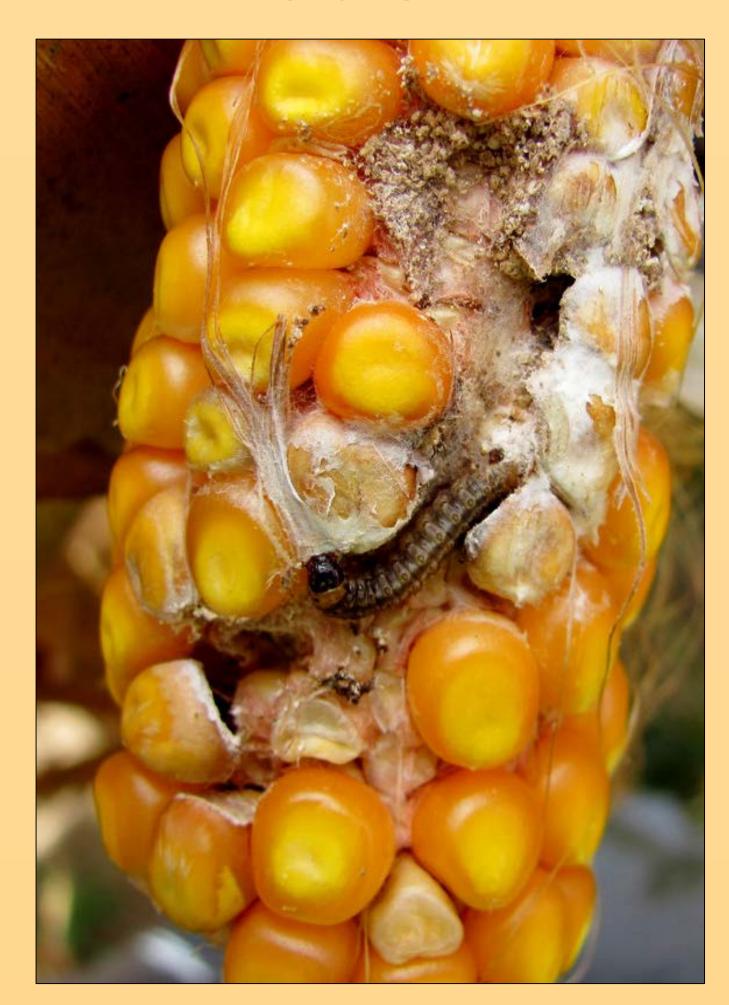


The Maize to Pest Prevention

Team members: Sarah Elice (ECE), Chris Tracy (CM), Gina Visser (CM) Advisors: Professor Elisabeth Stoddard, Professor Kristin Wobbe



Problem:



European corn borer destroys 15% of sweet corn, reducing profit of farmers



85% of farmers treat for the European corn borer, some with harmful methods

Goal: To recommend a environmentally sustainable, cost effective and efficient pest control method to reduce damage from the European corn borer in New England

Our Solution

Small, diverse farms require individualized approach

Combination of methods more effective than single method

Matrix showing pros and cons of pest management methods

Farmers choose best method for their farm conditions

Bt corn Pesticides

Crop rotation Pheromone traps

Implementation:

A flyer will include information on the various methods described in the matrix to inform farmers of the different methods

Future:

Conduct a survey on a wider range of farmers asking about their specific needs and views on pest management



This is an example of a pheromone trap, one of our proposed methods

Acknowledgements:

We would like to thank Dr. John Tooker, a research entomologist at The Pennsylvania State University.

References:

BioQuick News. (n.d.). Retrieved November 30, 2016, from http://www.bioquicknews.com/node/3095
Corn Borer larva on an ear of corn. (n.d.). Retrieved November 30, 2016, from

https://www.flickr.com/photos/pennstatelive/11451048733 González, L. G. (2016, July 24). Corn field at dusk. Retrieved November 30, 2016, from

https://www.flickr.com/photos/145039335@N03/29009945234/in/photolist-obcvvE-sas694-zG2Dv6- BM9Yh6-yk84Wt-yFJQXv-GYyvcv-tJQND8-JixHb8-HZJt8d-Cv6Rmn-vFkE2S-v4ubuK-HRZbVs-yWryUB- 3GxN6-vVuCrU- MHzeiG-M1M9Lk-MHEfQV-Lcvy2y-Lt5nq9-Lw4TPZ-Kzeruc-Kz4wLW-JxqjjP
European corn borer. (n.d.). Retrieved November 30, 2016, from http://www.wikiwand.com/en/European_corn_borer