

# Updates to Cornell Guide to Integrated Field Crop Management

## Principal Investigators

Jaime Cummings and Ken Wise, NYS Integrated Pest Management Program

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## Executive Summary

The Cornell Guides for crop management of various commodities are important resources that outline crop, soil, nutrient and pest management and pesticide recommendations based on NYS regulations. Annual updates to these resources are critical to maintain accuracy and provide the best guidelines for NY farmers. The NYS IPM staff have played integral roles in composing and updating sections of these guides for years. In 2019, the Cornell Guide for Integrated Crop Management was in need of significant updates to the plant disease and weed management sections, and the insect pest sections to a lesser degree. We completely overhauled all fungicide efficacy tables to reflect currently available products, and made updates to the text to reflect current pests and management options for each commodity. We worked with the field crops entomologist and PMEP to update insecticide tables and text, and added a new table of available insecticides for managing pests of stored grain. We also suggested appropriately qualified CCE staff to completely overhaul the weed management sections for each commodity, which had not been updated in many years. The 2020 version has been modernized and is currently available for purchase.

## Issue

Because of retirements and busy schedules of field crop extension faculty, updates to some pest and disease management sections of the Cornell Guide for Integrated Field Crop Management had been sorely lacking in recent years. Given the citability and potential influence this guide has on management recommendations and decisions and even potential legislation for NY field crops production, it is critical that this guide accurately reflects current pesticides and pest/disease management recommendations. We were recruited in 2019 by the editor and the PMEP program to provide significant review and updates to the pest and disease management sections of the guide, including updating fungicide tables and disease management text, reviewing and editing insect pest sections and insecticide tables, and recommending experts within Cornell Cooperative Extension who could provide much needed updates to the weed management sections for each commodity.

## Progress Summary

All updates were researched and provided in a timely manner, and significant improvements were made to the guide as a result. All disease section text and fungicide tables that had not been updated in at least three years were overhauled to reflect currently available products, rates and NY restrictions for each crop. Insect pest management sections were reviewed and minor revisions were made, and a new insecticide table for stored grains was developed and inserted. Two CCE field crop specialists worked together to thoroughly update the weed management

sections and herbicide tables, which hadn't been updated in at least 5 years, to reflect current issues and recommendations.

## Expected and Observed Impact

The new updated version of the guide will be more relevant and useful to field crop stakeholders, including farmers and those who make disease and pest management recommendations (CCE specialists and crop consultants) who rely on this resource for accurate and current guidelines. The new insecticide table outlining products available for managing pests of stored grain is a welcome new addition, and has received positive feedback. Agribusiness associates have expressed gratitude for updates to the fungicide and herbicide efficacy tables. Overall, due to these updates, the guide is a more relevant and respected resource for all field crop stakeholders, and decreases the reliance on out-of-state documents.

## Project Conclusion:

All necessary updates were researched and incorporated for the pesticide tables and text. We will continue with annual updates, which will be much less daunting, and we will work with field crops extension faculty to ensure all content is accurate. The CCE specialists will continue providing necessary edits to the weed management sections in future years, until a field crop weed management faculty position is refilled.