

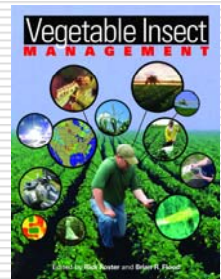
Vegetable Insect Management

How Teamwork Helped Move
Vegetable IPM Forward

Rick Foster – Purdue University

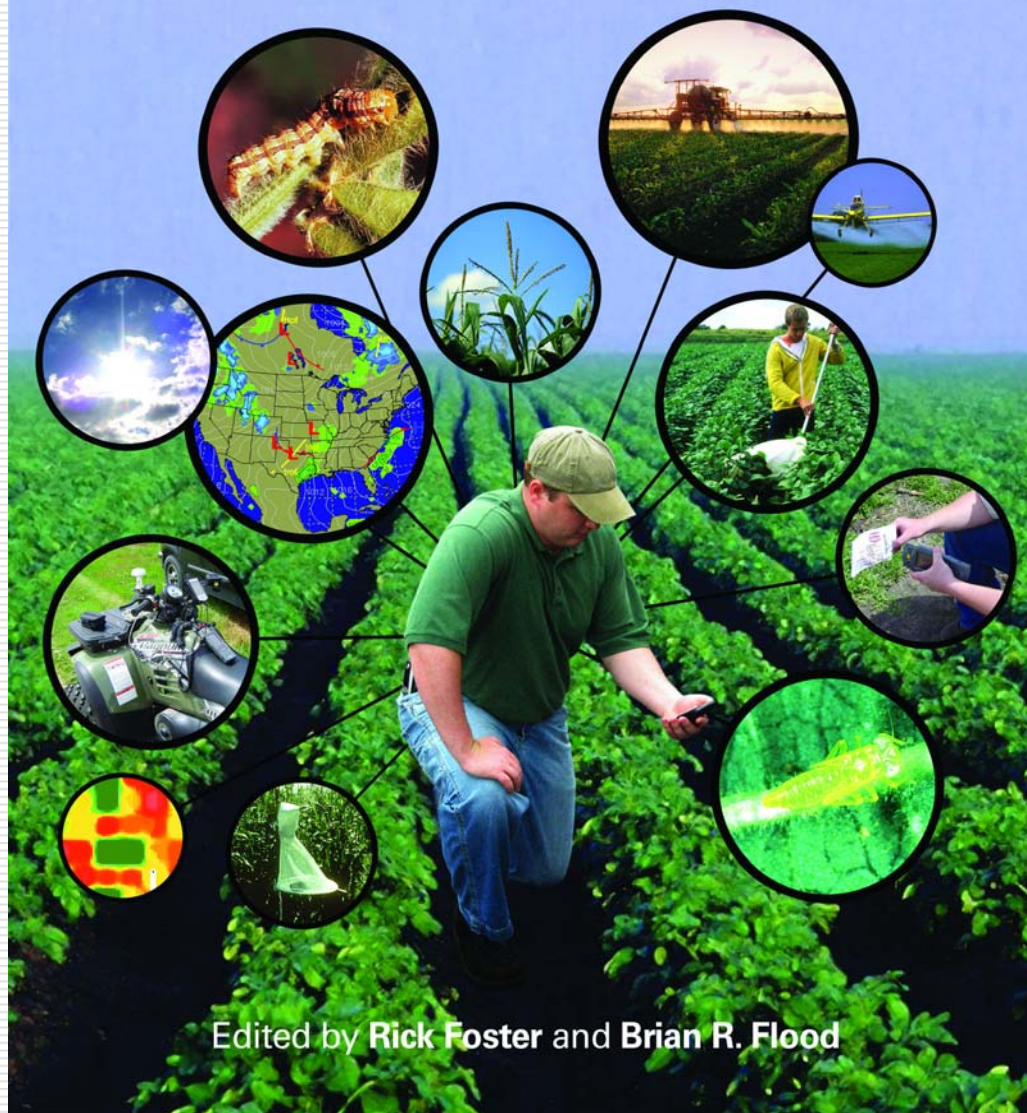
and

Brian Flood – DelMonte Foods



Vegetable Insect

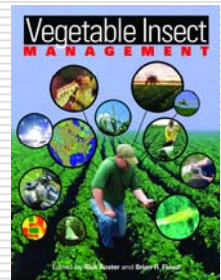
MANAGEMENT



Edited by **Rick Foster** and **Brian R. Flood**

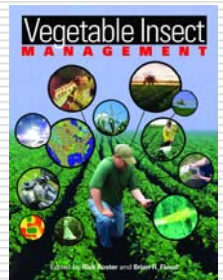
Vegetable Insect Management

- ❑ First Edition published in 1995
- ❑ Focused on Midwest
- ❑ 15 chapter, 23 authors
- ❑ Second Edition published in 2005
- ❑ National focus
- ❑ 14 chapters, 32 authors



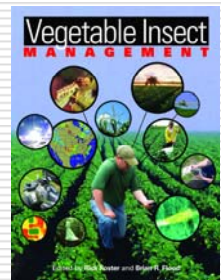
Guiding Principles

- ☐ Must be practical
- ☐ Provide only enough insect biology for pest manager to make decisions
- ☐ Recognize that pest managers must make decisions, whether researchers have all the answers or not
- ☐ Must be easy to read



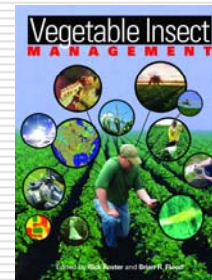
How the IPM World Changed From 1995 to 2005

- ☐ Internet
- ☐ Cell phones
- ☐ CDs
- ☐ GPS readily available
- ☐ Downsizing of Extension programs
- ☐ GMO crops
- ☐ FQPA
- ☐ Seed treatments
- ☐ Reduced risk insecticides



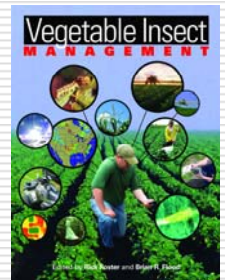
Vegetable Insect Management Features

- ❑ Combined effort of academia, industry, and regulatory personnel
- ❑ Focuses on total management system
- ❑ “Act local, think global” mindset
- ❑ Handy Dandy Chart/Treatment Window



Chapter Format

- ❑ Highlights key insect pests per region in 13 specific vegetable crop groups
- ❑ Geographic balance in authorship
- ❑ Designs the management around the key pests
- ❑ 250 color photos with charts, illustrations, pictures and summary boxes to allow quick reference and resources
- ❑ Web links for additional information

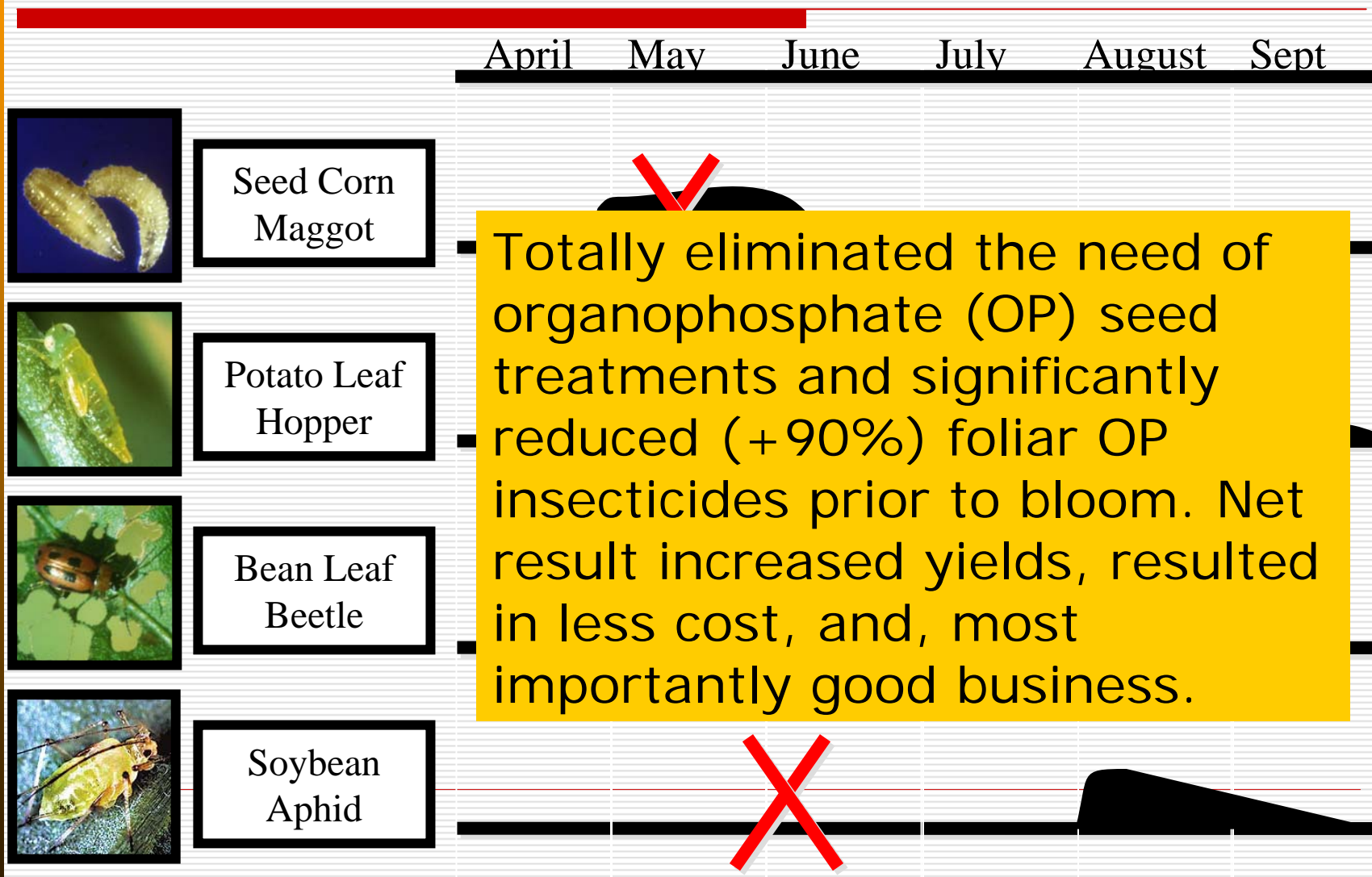


New Foliar Insecticide Options:

Primary Bloom to Harvest Insecticide	Years of Use Applications PER AP	Average COST	PEST	Pest On plant BEFORE treatment KNOCKDOWN CONTROL										Ap Date	Pest On plant AFTER treatment RESIDUAL CONTROL						
				7	6	5	4	3	2	1	0		1	2	3	4	5	6	7		
Parathion & Sevin 80S	1960 - 1980 4X - 8X ACTUAL: \$5.25 2002 \$: \$11.50		ECB - adults ECB - larvae CEW - adults CEW - larvae																		
				1st Edition																	
 Orthene 75S	1980 - 2000 2X - 4X ACTUAL: \$6.25 2002 \$: \$8.62		ECB - adults ECB - larvae CEW - adults CEW - larvae																		
Penncap M	1985 - 1998 2X - 4X ACTUAL: \$4.75 2002 \$: \$6.55		ECB - adults ECB - larvae CEW - adults CEW - larvae																		
				2nd Edition																	
 Capture 2EC	1999 - 2003 1X - 2X ACTUAL: \$5.75 2003 \$: \$5.75		ECB - adults ECB - larvae CEW - adults CEW - larvae																		

New Control Tool:

thiamethoxam (Cruiser®) Seed Treatment



Weather & Insect Migration

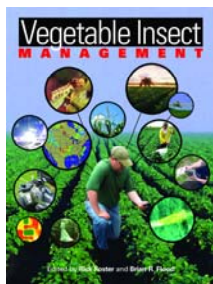
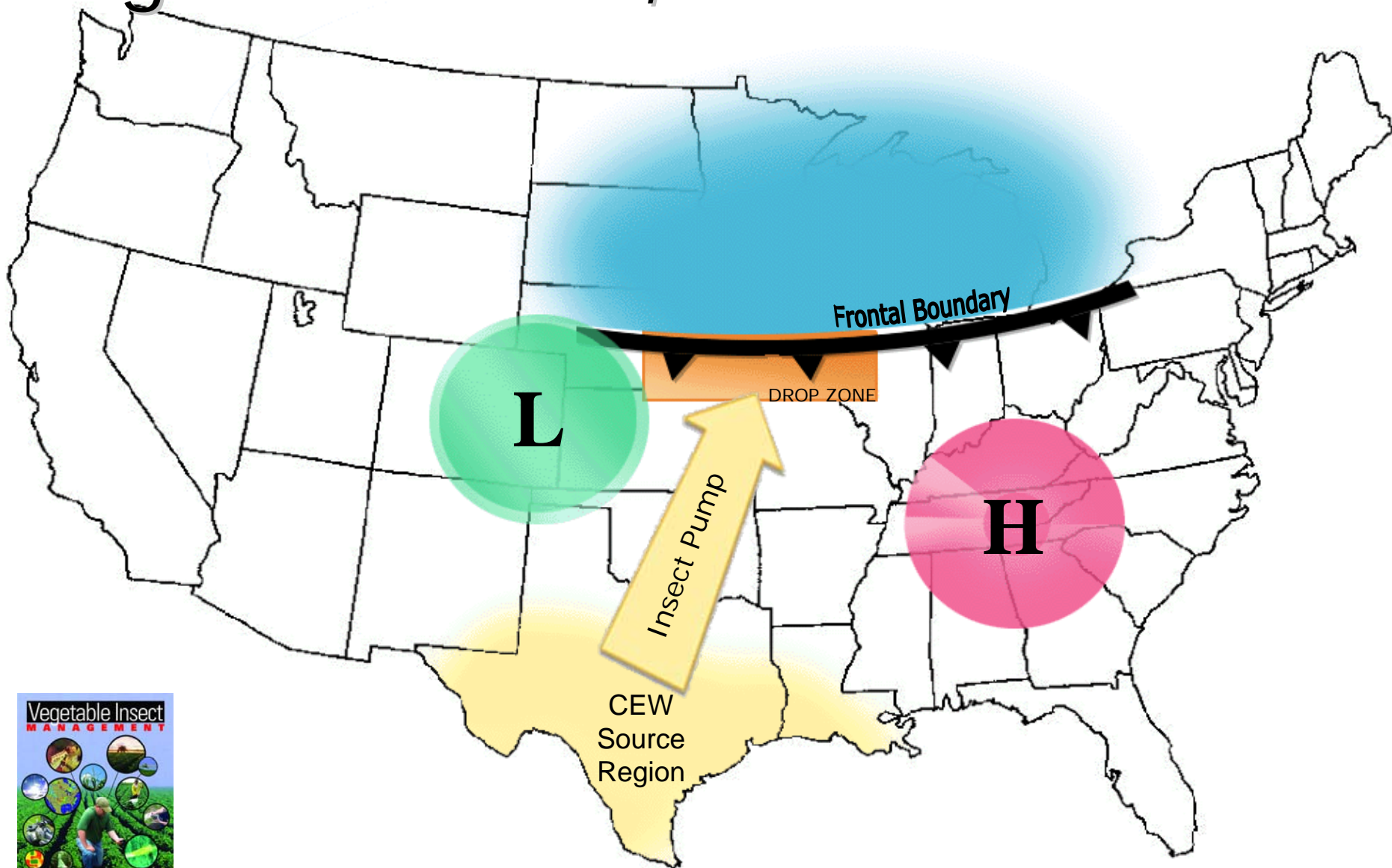
Applied to North America, east of the Rocky Mountains

A Tutorial

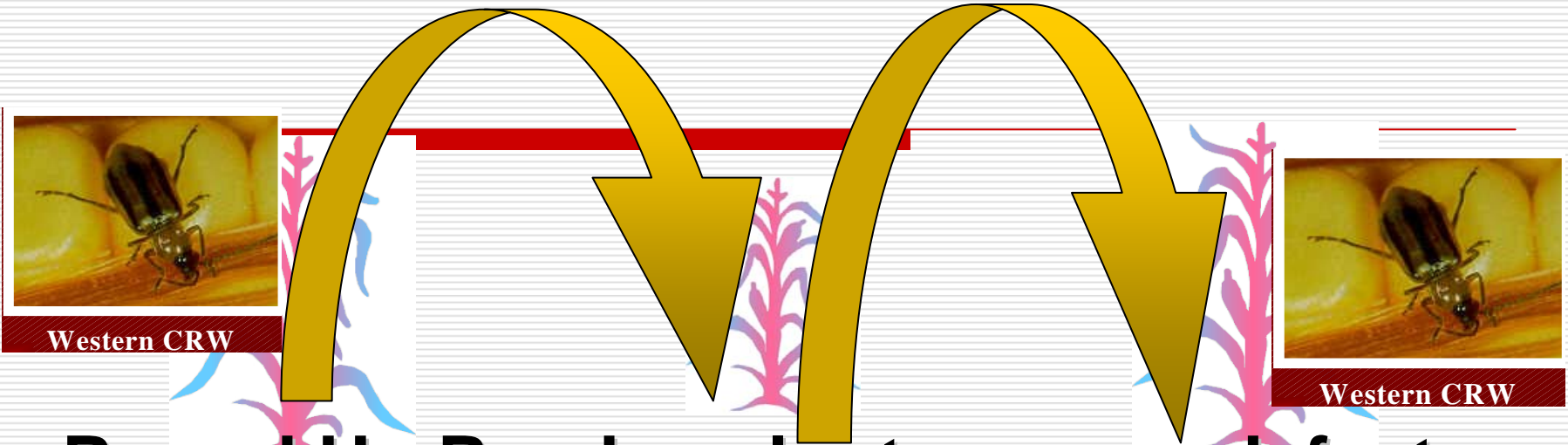
by Michael Sandstrom and Tracy Flood Bramall

[click to begin](#)

August 4th to 5th, 2002



GMO Field Crop Impact

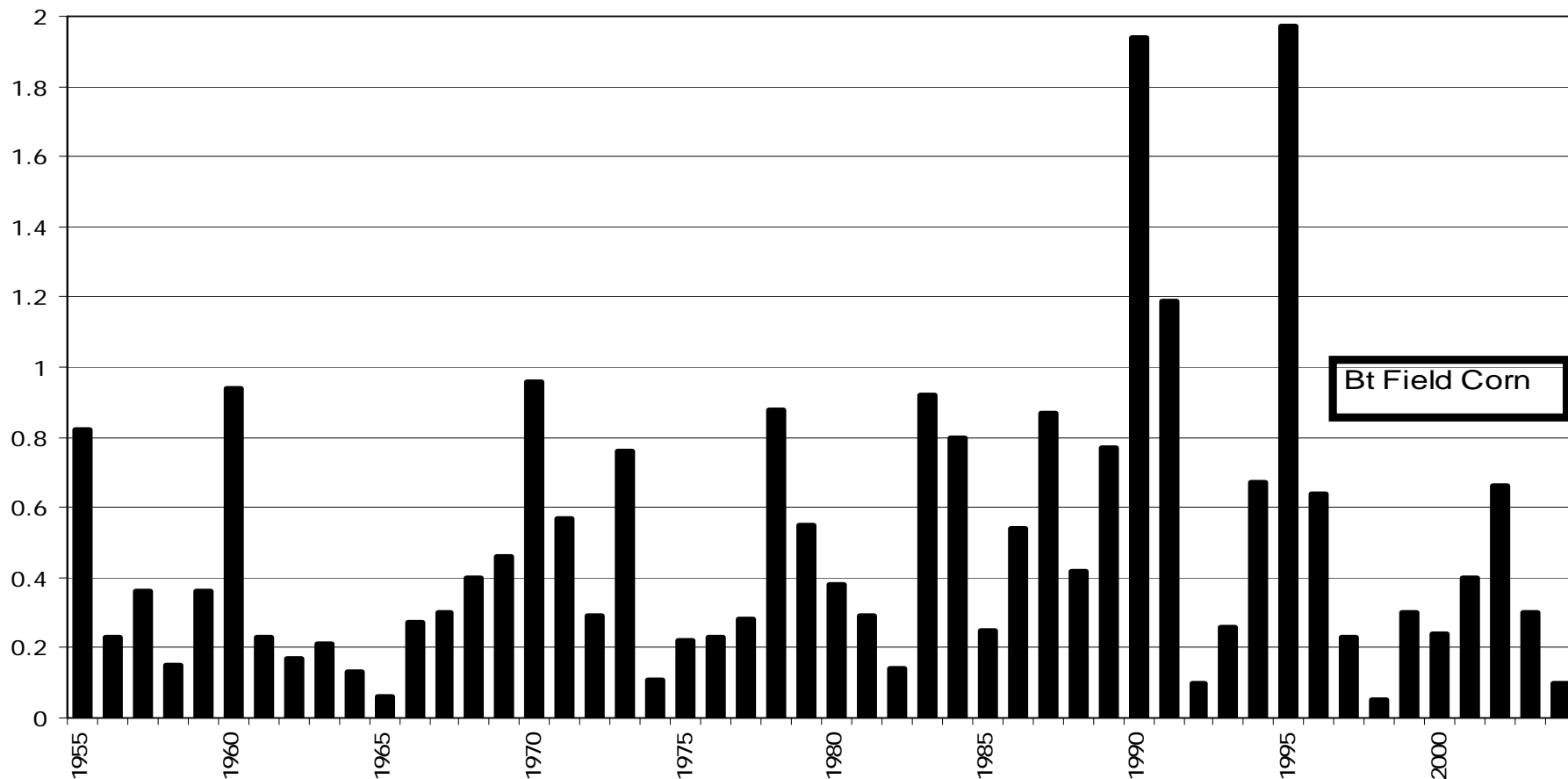


Round Up Ready volunteer corn defeats the purpose of crop rotation



GMO Field Crop Impact

Wisconsin European Corn Borer Fall Survey Results 1954-2004
Statewide Average Number of Borers per Plant



Vegetable Insect Management

Handy Dandy Chart implementation

- Tutorial on CD
 - Chapter provides a step-by-step process in Treatment Window and Handy Dandy Chart development
-

The background of the slide is a close-up photograph of green, heart-shaped leaves, likely from a plant like a pea. The leaves are vibrant green with visible veins. In the top-left corner, there are two vertical orange bars. A horizontal orange bar runs across the middle of the slide, partially obscuring the text. In the bottom-left corner, there are two vertical orange bars of different shades.

How to Build a Handy Dandy Chart

How to Build a Handy Dandy Chart

Green Beans

1

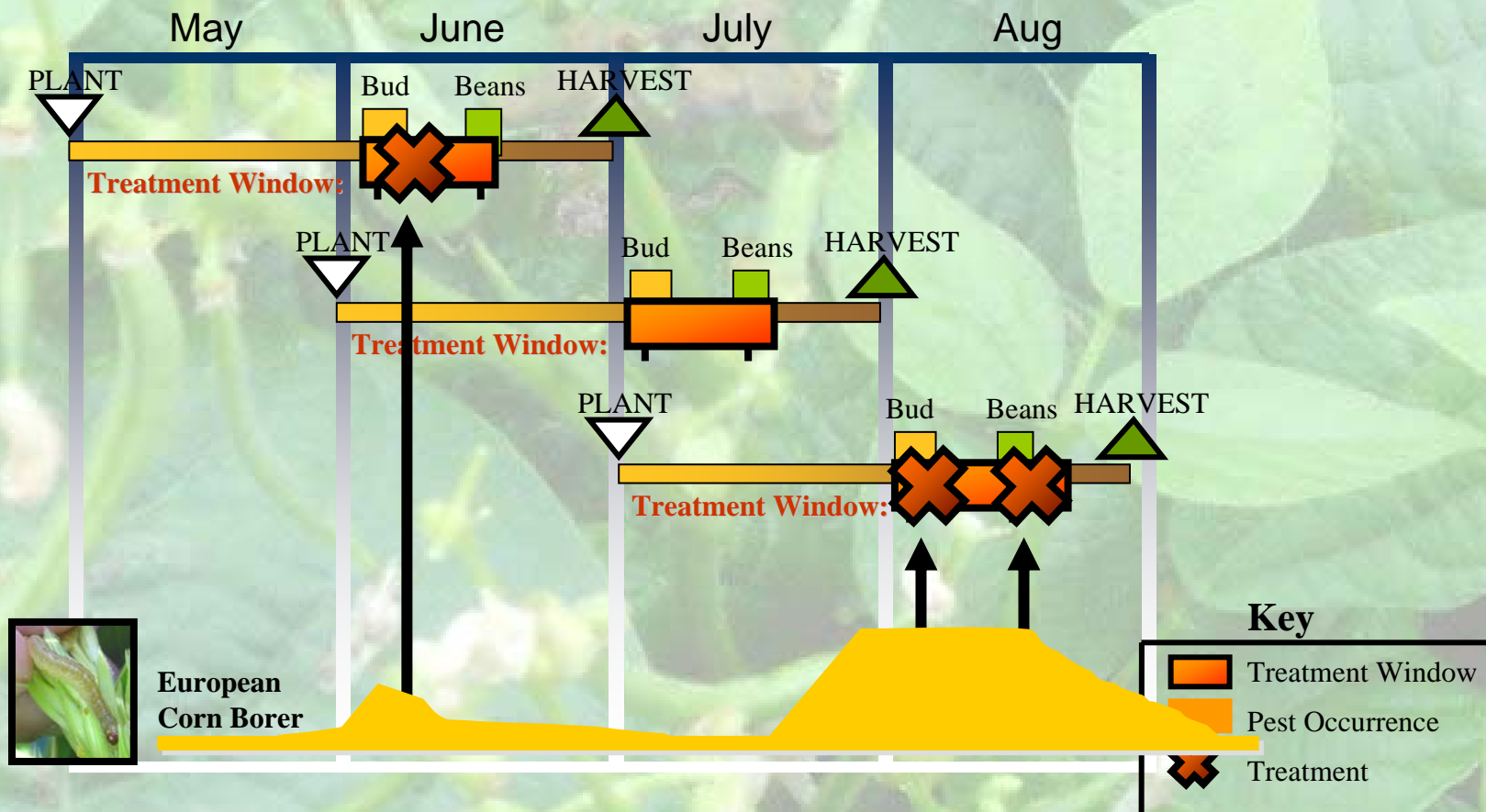
Planting Schedule

2

Pest Occurrence

3

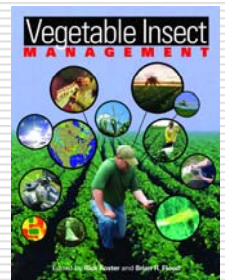
Treatment



Vegetable Insect Management

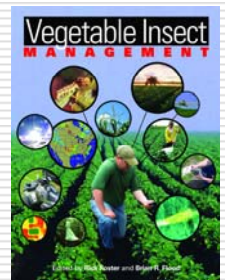
Using a total management system

- Tutorials on CD
- Encouraging people to look beyond the field



Vegetable Insect Management

- CD Contents:
 - Tutorials
 - Reference Materials
 - Regulations
 - Application



Rick Foster & Brian R. Flood-editors

Thanks

- ☐ Meister Media Worldwide
- ☐ Authors
- ☐ Photographers who let us use their images
- ☐ DelMonte Foods
- ☐ Purdue University

