



Integrated Pest Management for Beginner Farmers



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MARKETS

WEATHER

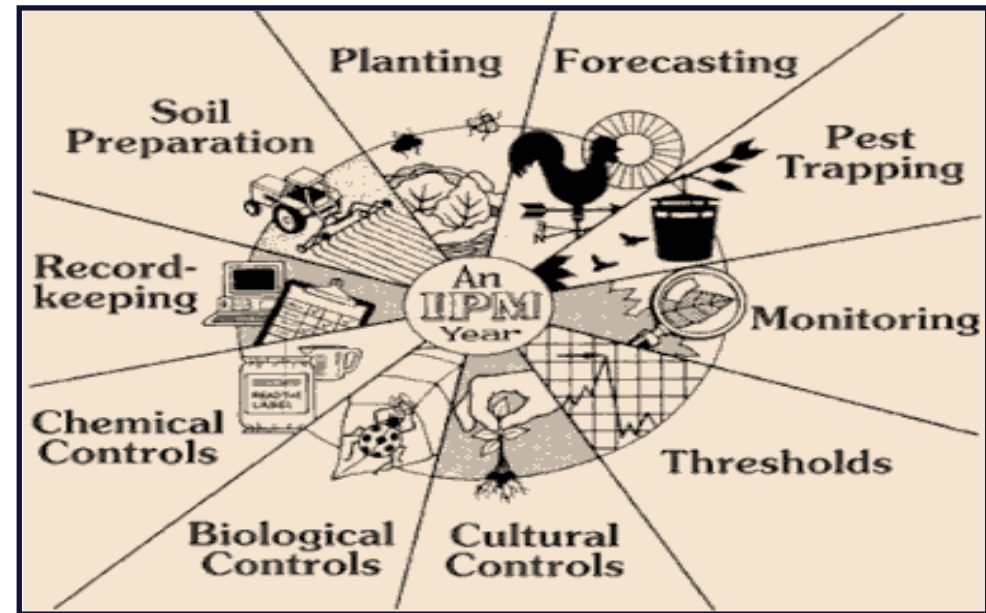
**PEST
MANAGEMENT**



PRODUCTION

IPM defined

- Optimization of pest control in an ecologically and economically sound manner
- Emphasis on coordinated use of multiple pest management tactics to ensure adequate crop production
- Maintenance of pest damage below injurious levels, while minimizing hazards to humans, animals, plants and the environment in general



Source: <http://www.ipminstitute.org>

The basic goal of IPM is to manage populations of pests so as to minimize economic losses resulting from their damage

Why IPM?

- Recognized at the presidential level since 1972; official policy in several countries (Germany)
- Published studies document 50% to 90% reductions in pesticide use and pest problems through IPM in both agriculture and communities

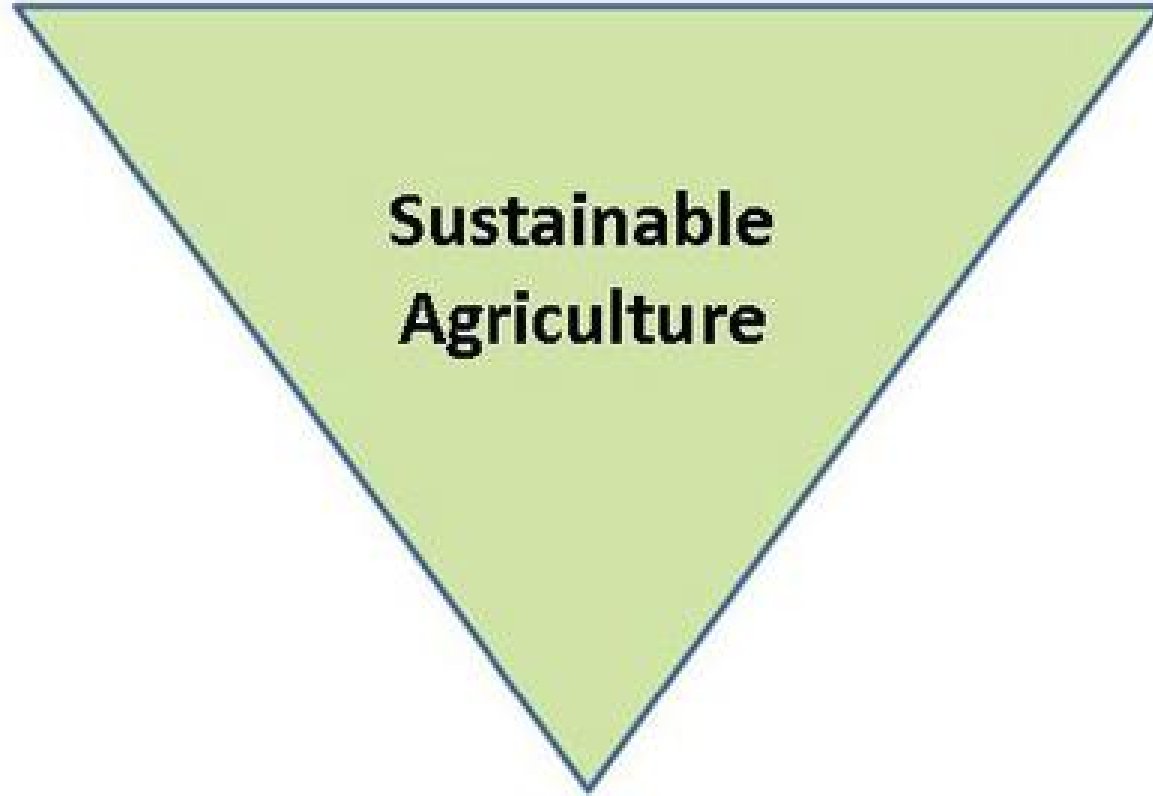


Environment

Society

**Sustainable
Agriculture**

Economy

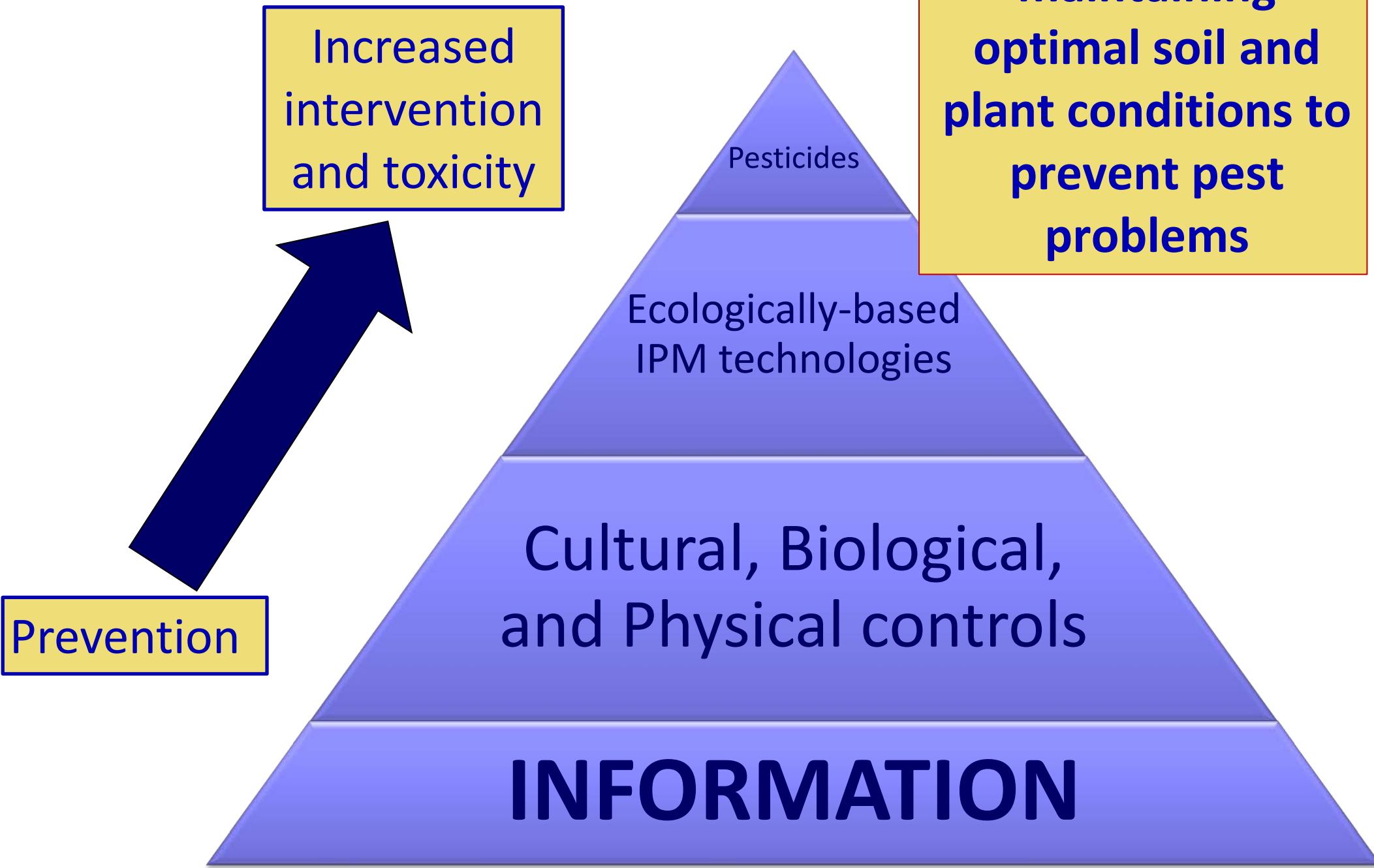


IPM and Economics

- **MN:** An IPM program increased net returns (cabbage) by **\$401/acre**, compared with the conventional program
- **DE:** Growers used IPM to reduce pesticide costs: potato farmers reduced fungicide use by **\$60,000** on 3,000 acres and watermelon growers cut costs by **\$12,000** on 400 acres
- **HI:** the Hawaii Area-Wide IPM Program resulted in an increase of \$ **6,434 / acre** after subtracting program costs for zucchini growers

“Farmers have enthusiastically embraced the...program. The IPM technologies have demonstrated that work, are farmer friendly and do increase financial returns”

IPM Triangle





NEW YORK STATE Integrated Pest Management PROGRAM

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Organic Guides for Fruit, Vegetables & Dairy

New editions for 2011!

These **ORGANIC PRODUCTION GUIDES** outline general practices for growing **vegetable** and **fruit** crops using organic integrated pest management techniques. Producers working in **dairy** settings will find the organic dairy cattle guide describes ways to manage external arthropod pests.

The guides provide an overall approach for organic production with a focus on biological, mechanical, and cultural controls. Sections on cover crops, resistant varieties, crop rotation, field selection, soil quality and nutrient management all highlight their interrelated qualities and precede specifics on pest management options.

Help improve these guides. If you have additional information or suggestions, please email them to organicguides@gmail.com.



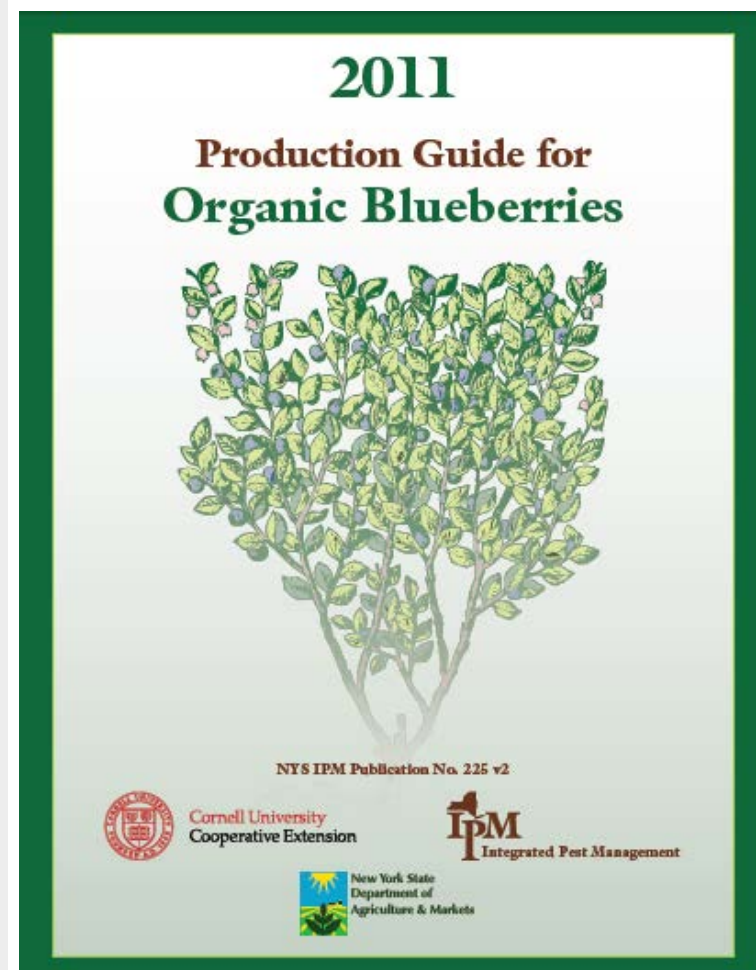
http://nysipm.cornell.edu/organic_guide/

Dairy	Download
IPM Guide for Organic Dairies 2011, including Appendices (WEB quality)	3.45MB pdf file

IPM Guide for Organic Dairies 2011, in sections (PRINT quality)

IPM Guide to Organic Dairies 2011	2Mb pdf file
Appendix 1: Barn Flies	512k pdf file
Appendix 2: Pasture Flies	932k pdf file
Appendix 3: Common Pest Flies	704k pdf file
Appendix 4: Cattle Lice	200k pdf file

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Organic Lettuce 2011	1.9Mb pdf file
Organic Peas 2011	1.2Mb pdf file
Organic Potatoes 2011	2.3Mb pdf file
Organic Spinach 2011	1.7 Mb pdf file





LUCE Integrated Pest Management Program

- Aim: to **develop** and **promote** affordable alternative pest management strategies to combat insect pests of vegetable crops
- Emphasis is being made to provide under-represented, low-income farmers with **research-based information** on effective and environment-friendly IPM tactics
- Our long-term goal is that Missouri's farmers increase the level of awareness and adoption of IPM components leading to **increased profits** while **decreasing inputs and pesticide use**
- Extension activities include one-to-one interactions, workshops, presentations, extension publications, and on-farm demonstration trials

Educational Materials in Flash Drive

- PDF of Midwest Small Fruit Pest Management Handbook
- PDF of 2012 Midwest Small Fruit and Grape spray guide
- PDF of 2012 Midwest Vegetable Production Guide for Commercial Growers
- **13** Production Guides for Organic Fruits and Vegetables (CORNELL UNIV.)

http://nysipm.cornell.edu/organic_guide/

- **9** books (PDF copies) published by the Sustainable Agriculture Research and Education (SARE) program:

<http://www.sare.org/Learning-Center/Books>

- Word file with links to > 150 articles and videos + webinars concerning Organic Vegetable Production 
- Identification of Vegetable Insect Pests –by Purdue Univ.