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- Research conducted in conventional systems relevant to organic systems.
- Regulation-based information.

All content must be compliant with the National Organic Program regulations.

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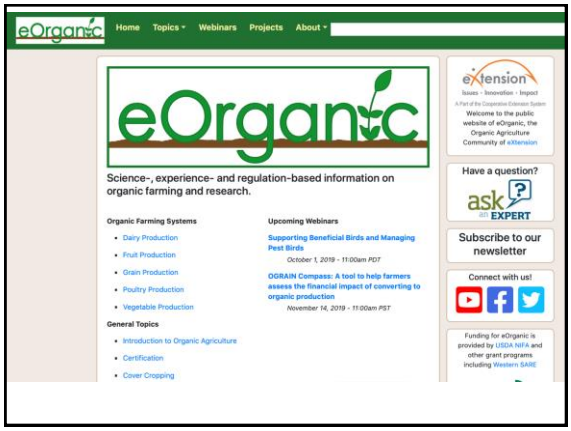
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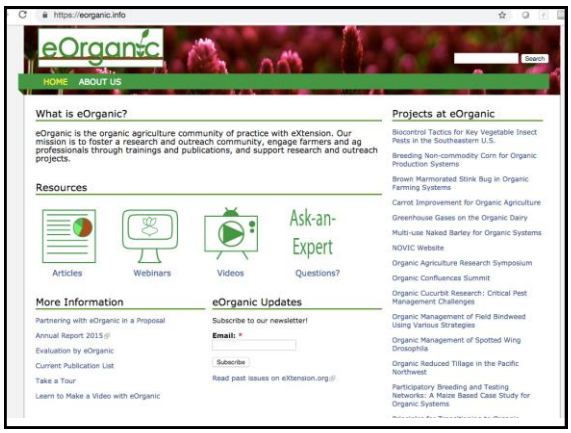
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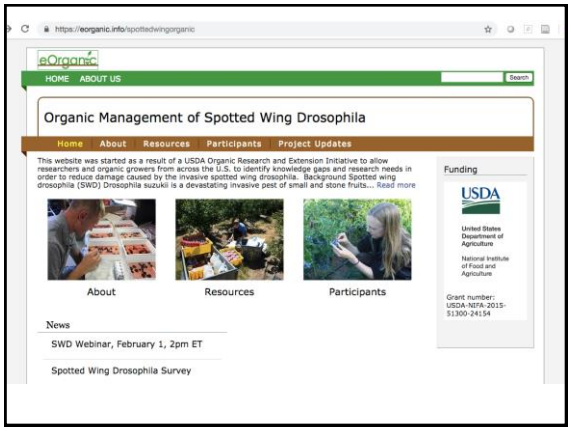

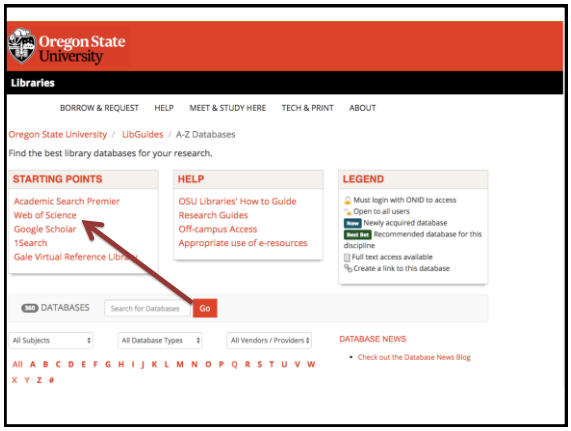

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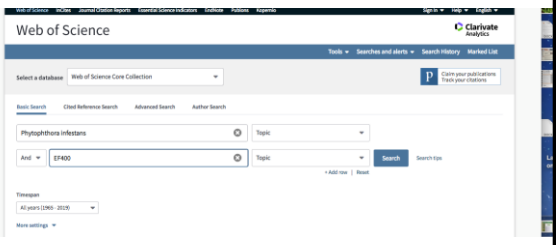

Plant disease management in organic farming systems

By: van Bruggen, AHC (van Bruggen, Arianna H. C.)[1,2,3]; Gamliel, A (Gamliel, Abraham)[2,3]; Finckh, MR (Finckh, Maria R.)[3,4]
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Volume: 72 Issue: 1 Pages: 30-44
DOI: 10.1002/ps.4145
Published: JAN 2016
Document Type: Review
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Abstract
Organic farming (OF) has significantly increased in importance in recent decades. Disease management in OF is largely based on the maintenance of biological diversity and soil health by balanced crop rotations, including nitrogen-fixing and cover crops, intercrops, additions of manure and compost and reductions in soil tillage. Most soil-borne diseases are naturally suppressed, while foliar diseases can sometimes be problematic. Only when a severe disease outbreak is expected are pesticides used that are approved for OF. A detailed overview is given of cultural and biological control measures. Attention is also given to regulated pesticides. We conclude that a systems approach to disease management is required, and that interdisciplinary research is needed to solve lingering disease problems, especially for OF in the tropics. Some of the organic regulations are in need of revision in close collaboration with various stakeholders. (c) 2015 Society of Chemical Industry

Keywords
Author Keywords: organic agriculture; plant diseases; cultural control; biological control; soil health; systems approach
KeyWords Plus: CORKY ROOT DISEASE; BIOLOGICAL SOIL DISINFESTATION; EARTHWORMS APORRECTODEA-ROSEA; MICROBIAL COMMUNITY STRUCTURE;

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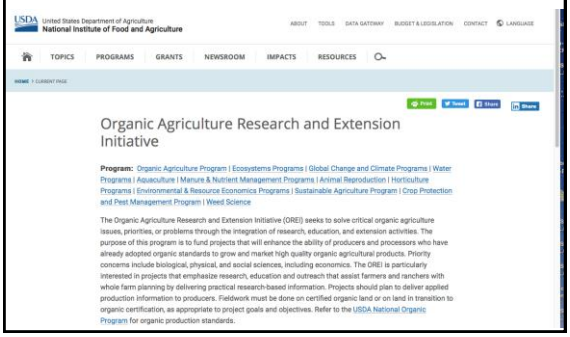

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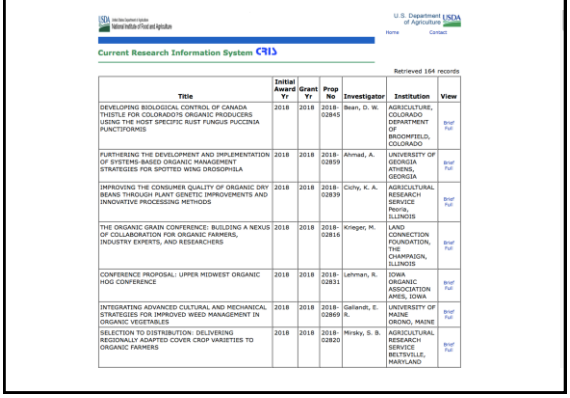
The Organic Agriculture Research and Extension Initiative (OREI) seeks to solve critical organic agriculture issues, priorities, or problems through the integration of research, education, and extension activities. The purpose of this program is to fund projects that will enhance the ability of producers and processors who have already adopted organic standards to grow and market high quality organic agricultural products. Priority concerns include biological, physical, and social sciences, including economics. The OREI is particularly interested in projects that emphasize research, education and outreach that assist farmers and ranchers with whole farm planning by delivering practical research-based information. Projects should plan to deliver applied production information to producers. Fieldwork must be done on certified organic land or on land in transition to organic certification, as appropriate to project goals and objectives. Refer to the USDA National Organic Program for organic production standards.



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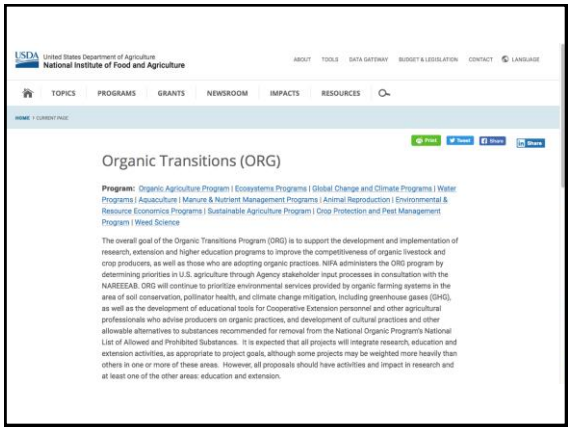

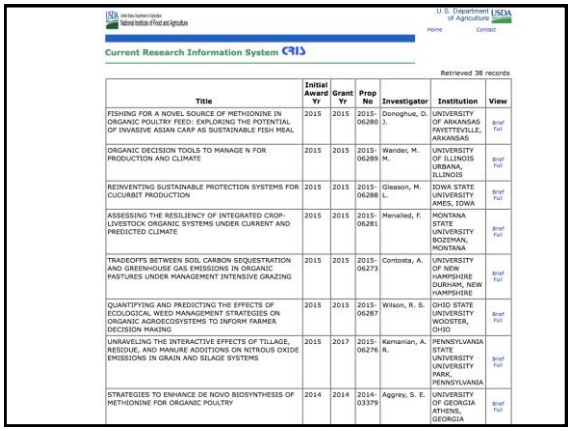

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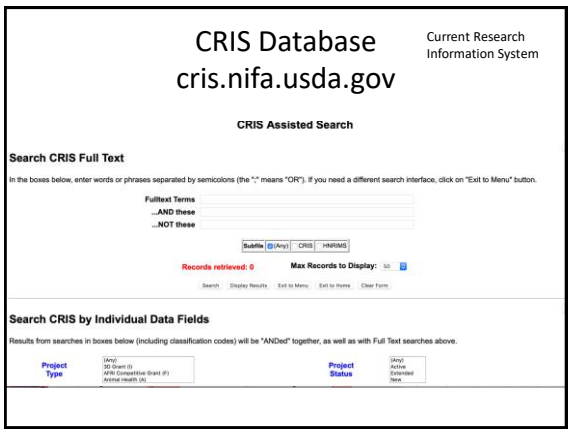

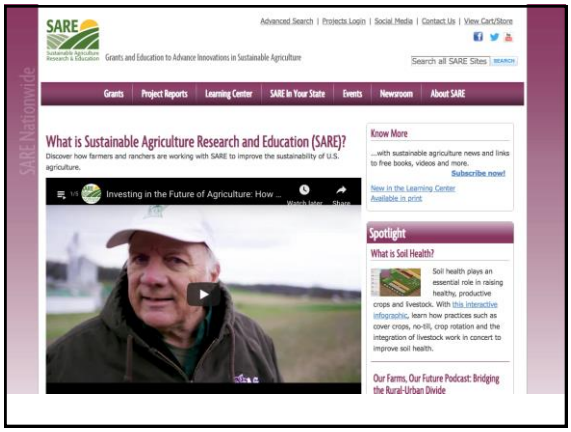
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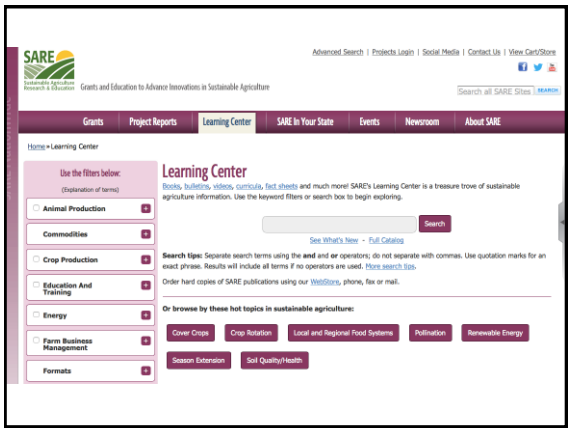
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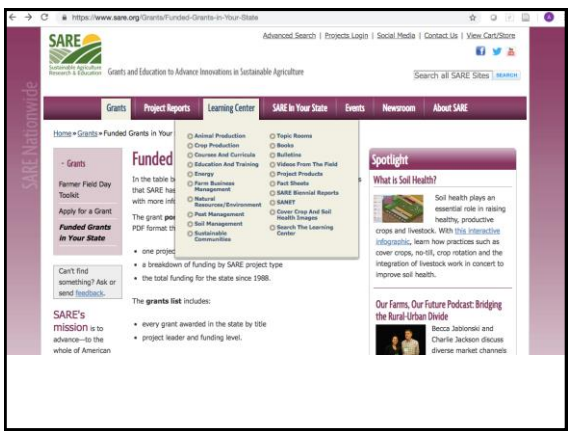
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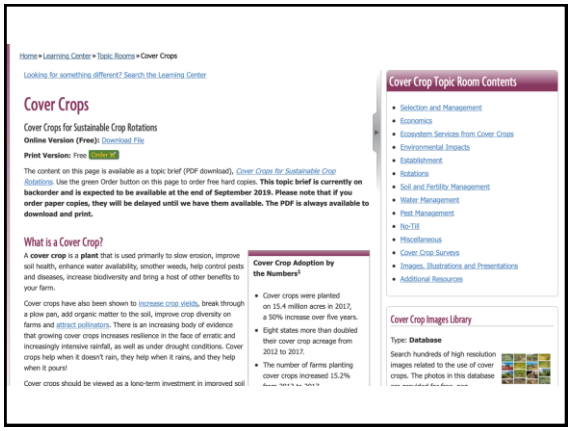
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A cover crop is a plant that is used primarily to slow erosion, improve soil health, enhance water availability, smother weeds, help control pests and diseases, increase biodiversity and bring a host of other benefits to your farm.
Cover crops have also been shown to increase crop yields, break through a plow pan, add organic matter to the soil, improve crop diversity on farms and attract pollinators. There is an increasing body of evidence that growing cover crops increases resilience in the face of erratic and increasingly intensive rainfall, as well as under drought conditions. Cover crops help when it doesn't rain, they help when it rains, and they help when it pours!
Cover crops should be viewed as a long-term investment in improved soil
Cover Crop Adoption by the Numbers[1]
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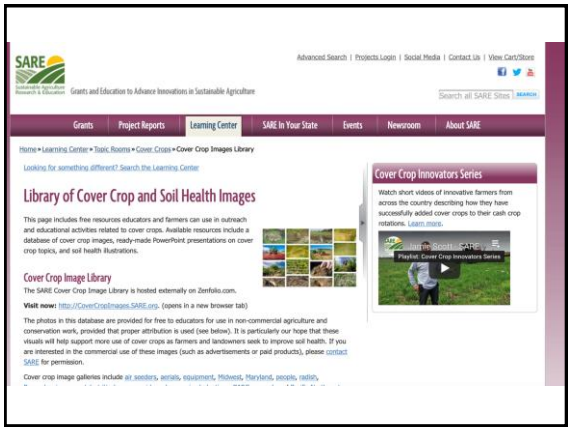
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The photos in this database are provided for free to educators for use in non-commercial agriculture and conservation work, provided that proper attribution is used (see below). It is particularly our hope that these visuals will help support more use of cover crops as farmers and landowners seek to improve soil health. If you are interested in the commercial use of these images (such as advertisements or paid products), please contact SARE for permission.
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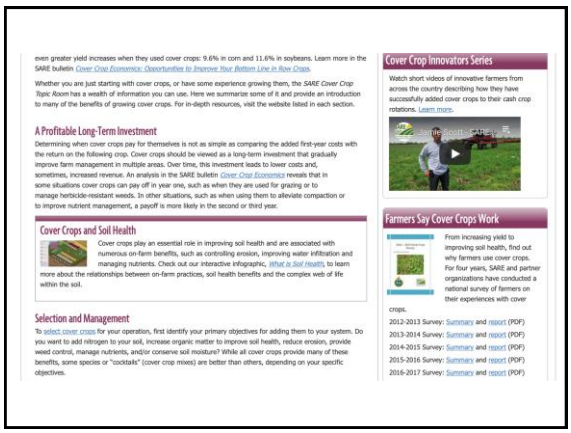
even greater yield increases when they used cover crops: 9.6% in corn and 11.6% in soybeans. Learn more in the SARE bulletin Cover Crop Economics: Opportunities to Improve Your Bottom Line in Row Crops.
Whether you are just starting with cover crops, or have some experience growing them, the SARE Cover Crop Topic Room has a wealth of information you can use. Here we summarize some of it and provide an introduction to many of the benefits of growing cover crops. For in-depth resources, visit the website listed in each section.
A Profitable Long-Term Investment
Determining when cover crops pay for themselves is not as simple as comparing the added first-year costs with the return on the following crop. Cover crops should be viewed as a long-term investment that gradually improve farm management in multiple areas. Over time, this investment leads to lower costs and, sometimes, increased revenue. An analysis in the SARE bulletin Cover Crop Economics reveals that in some situations cover crops can pay off in year one, such as when they are used for grazing or to manage herbicide-resistant weeds. In other situations, such as when using them to alleviate compaction or to improve nutrient management, a payoff is more likely in the second or third year.
Cover Crops and Soil Health
Cover crops play an essential role in improving soil health and are associated with numerous on-farm benefits, such as controlling erosion, improving water infiltration and managing nutrients. Check out our interactive infographic, What is Soil Health, to learn more about the relationships between on-farm practices, soil health benefits and the complex web of life within the soil.
Selection and Management
To select cover crops for your operation, first identify your primary objectives for adding them to your system. Do you want to add nitrogen to your soil, increase organic matter to improve soil health, reduce erosion, provide weed control, manage nutrients, and/or conserve soil moisture? While all cover crops provide many of these benefits, some species or "cocktails" (cover crop mixes) are better than others, depending on your specific objectives.
Cover Crop Innovators Series
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Farmers Say Cover Crops Work
From increasing yield to improving soil health, find out why farmers use cover crops. For four years, SARE and partner organizations have conducted a national survey of farmers on their experiences with cover crops.
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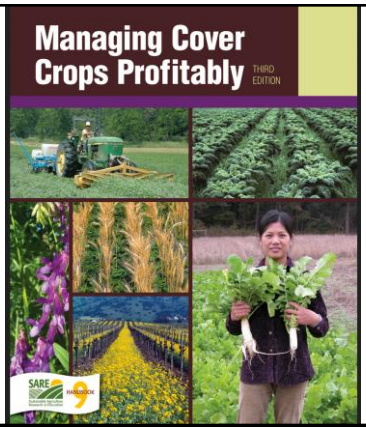
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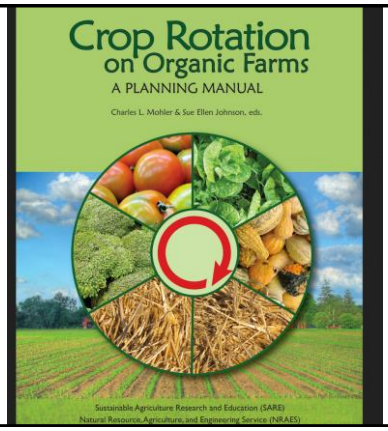
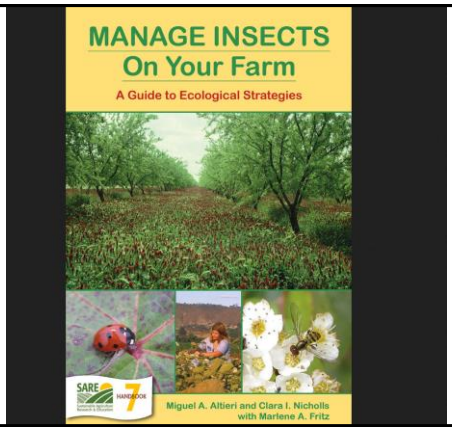
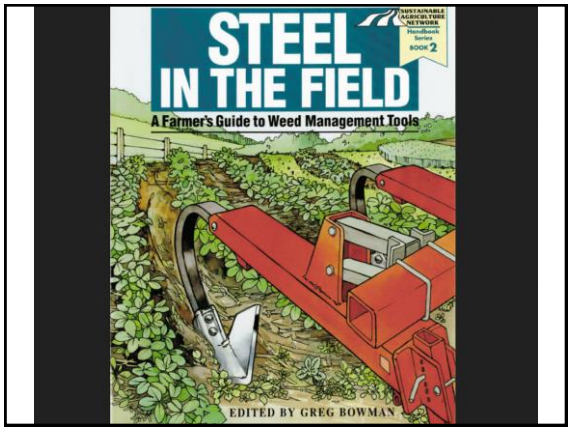
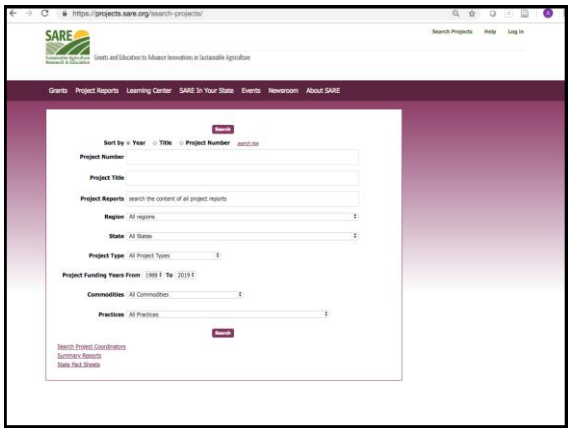
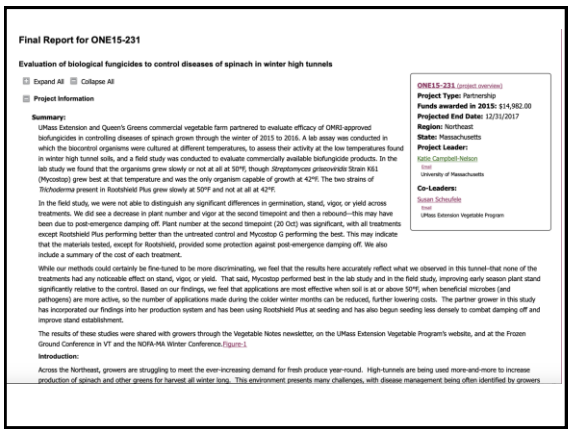

Crop Rotation on Organic Farms
A PLANNING MANUAL
Charles L. Mohler & Sue Ellen Johnson, eds.
Sustainable Agriculture Research and Education (SARE)
Natural Resource, Agriculture, and Engineering Service (NRAES)


MANAGE INSECTS On Your Farm
A Guide to Ecological Strategies
SARE
HANDBOOK
7
Miguel A. Altieri and Clara I. Nicholls
with Marlene A. Fritz







Final Report for ONE15-231

Evaluation of biological fungicides to control diseases of spinach in winter high tunnels

Expand All Collapse All

Project Information

Summary:

UMass Extension and Queen's Greens commercial vegetable farm partnered to evaluate efficacy of OMRI-approved biofungicides in controlling diseases of spinach grown through the winter of 2015 to 2016. A lab assay was conducted in which the biocontrol organisms were cultured at different temperatures, to assess their activity at the low temperatures found in winter high tunnel soils, and a field study was conducted to evaluate commercially available biofungicide products. In the lab study we found that the organisms grew slowly or not at all at 50°F, though *Streptomyces griseoviridis* Strain K61 (Mycostop) grew best at that temperature and was the only organism capable of growth at 42°F. The two strains of *Trichoderma* present in Rootshield Plus grew slowly at 50°F and not at all at 42°F.

In the field study, we were not able to distinguish any significant differences in germination, stand, vigor, or yield across treatments. We did see a decrease in plant number and vigor at the second timepoint and then a rebound—this may have been due to post-emergence damping off. Plant number at the second timepoint (20 Oct) was significant, with all treatments except Rootshield Plus performing better than the untreated control and Mycostop G performing the best. This may indicate that the materials tested, except for Rootshield, provided some protection against post-emergence damping off. We also include a summary of the cost of each treatment.

While our methods could certainly be fine-tuned to be more discriminating, we feel that the results here accurately reflect what we observed in this tunnel–that none of the treatments had any noticeable effect on stand, vigor, or yield. That said, Mycostop performed best in the lab study and in the field study, improving early season plant stand significantly relative to the control. Based on our findings, we feel that applications are most effective when soil is at or above 50°F, when beneficial microbes (and pathogens) are more active, so the number of applications made during the colder winter months can be reduced, further lowering costs. The partner grower in this study has incorporated our findings into her production system and has been using Rootshield Plus at seeding and has also begun seeding less densely to combat damping off and improve stand establishment.

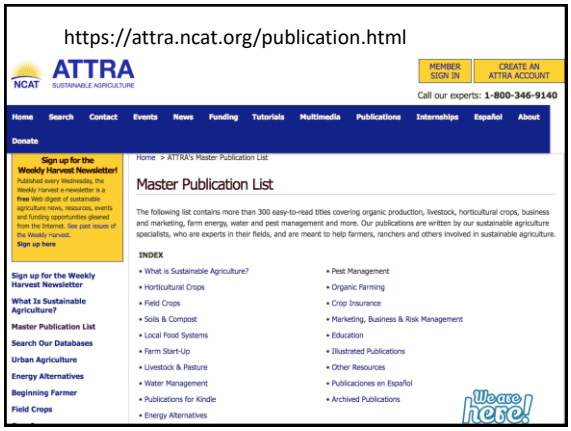
The results of these studies were shared with growers through the Vegetable Notes newsletter, on the UMass Extension Vegetable Program's website, and at the Frozen Ground Conference in VT and the NOFA-MA Winter Conference. Figure 1

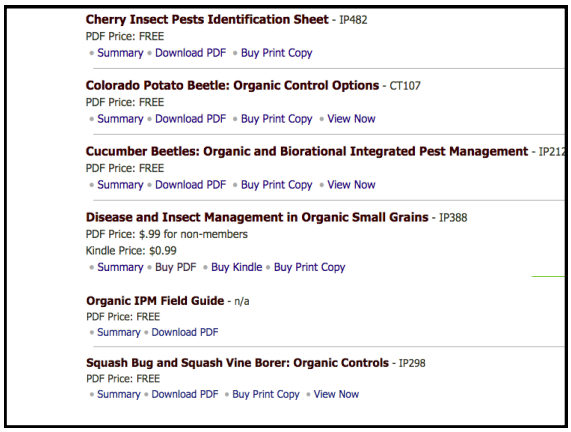
Introduction:

Across the Northeast, growers are struggling to meet the ever-increasing demand for fresh produce year-round. High-tunnels are being used more-and-more to increase production of spinach and other greens for harvest all winter long. This environment presents many challenges, with disease management being often identified by growers

ONE15-231 (project overview)
Project Type: Partnership
Funds awarded in 2015: $14,982.00
Projected End Date: 12/31/2017
Region: Northeast
State: Massachusetts
Project Leader:
Katie Campbell-Nelson
Email
University of Massachusetts
Co-Leaders:
Susan Scheufele
Email
UMass Extension Vegetable Program

https://attra.ncat.org/publication.html





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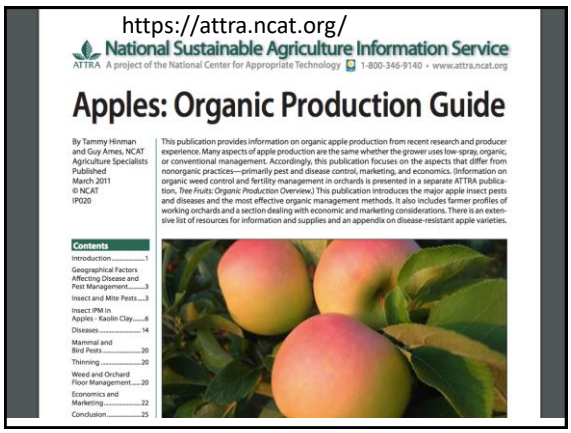

National Sustainable Agriculture Information Service
ATTRA A project of the National Center for Appropriate Technology 1-800-346-9140 • www.attra.ncat.org

Farmer Profiles: Two Organic Grain Farm Case Studies

By Susan Tallman, CCA, NCAT Agronomist
Published March 2011

IP387

Contents

Video tours of the farms profiled in this publication are available online. Watch them at:
www.youtube.com/watch?v=ZsrwvmzanRI (Hinebauch Farm Tour)
www.youtube.com/watch?v=ZotQ3xdHRIU (Boehm Farm Tour)

Randy and Lisa Hinebauch

Chinook, Montana

This case study is based on a farm tour sponsored by the Montana Organic Association on June 13, 2009. A video of this farm tour is available at www.youtube.com/watch?v=ZsrwvmzanRI.

Randy and Lisa Hinebauch farm 10,000 acres of organic grain near Chinook, Montana. Average annual precipitation at this location is 13.2 inches.

Field of organic spring wheat, Hinebauch Farm.

USDA United States Department of Agriculture

NCAT NATIONAL CENTER FOR APPROPRIATE TECHNOLOGY

OREGON TILTH

Nutrient Management Plan (590) for Organic Systems

Western State Implementation Guide


Weed Management in Organic Small Grains

Digital Price: $.99
Print Price: $3.99
Kindle Price: $0.99

By Susan Tallman
Published: 2011
Updated: 2011
© NCAT
IP390
12 pages

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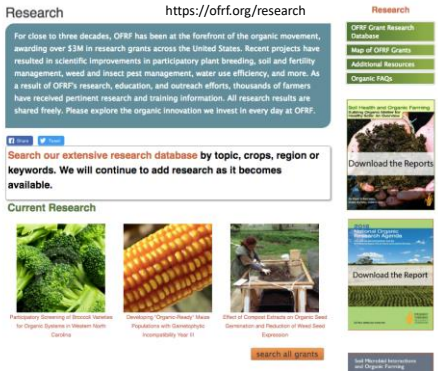
Abstract

Weed management is one of the biggest concerns in organic small grain production. Often, when a conventional grower considers organic farming, the difficulty of weed control is the first objection. Clean, weed-free fields are a source of pride for most farmers, and it can be difficult to imagine clean fields without the use of herbicides

Organic Farming Research Foundation (OFRF)

https://ofrf.org/research



OFRF Research Reports

Developing a Cover Crop-Based, No-Till System for Small-Scale Vegetable Producers: Effects on Soil Health, Weeds, Arthropod Communities, and Yield	Research	Other, South, Cover Crops, Fertility Management, Insect Management, Weed Management	April 2017		Florissant	Missouri
Corn Earworm Management: A Survey of Organic Sweet Corn Growers	Research	Corn, Breeding, Disease Management, Insect Management	April 2017		Madison	Wisconsin
A New Approach for Successful Organic Peach Production in the Southeast	Research	Other, South, Disease Management, Insect Management	June 2016		Clemson	South Carolina
Flowering Plants in Organic Strawberry Fields to Enhance Natural Enemies and Pollinators and Improve Pest Control and Fruit Quality		Bees and Pollinators, South, Strawberries, Disease Management, Insect	June 2016	Final Report	Wimauma	Florida

Ceres Trust Organic Research Initiative

https://cerestrust.org/organic-research-initiative/

CERES TRUST

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All | Soil Health | Public Plant Breeding and Organic Varieties | Organic Fruit and Vegetable Production | Organic Pest Management | Organic Livestock Management

Development and delivery of "living pest management" for organic greenhouses and local food systems

Development and delivery of a comprehensive orchard floor management tactics to promote natural pest management and enhanced soil quality

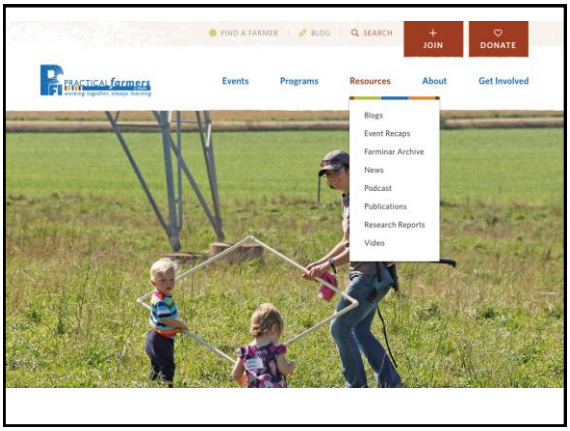
Effect of organic grain supplementation on economic, behavior, and pest management strategies of organic dairy cows.

Harnessing farm wildlife for weed management: Measuring suppression by rodents and insects

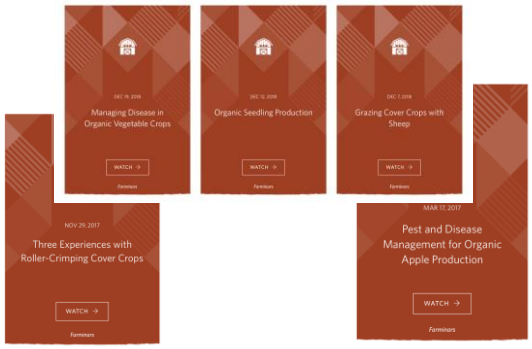
Improving the Profitability of Small Farms in Missouri by Reducing Inputs through the Integration of Farmscaping and Small Ruminants for Insect Pest and Weed Control

Integrating Organic Apple and Pork Production to Benefit Pest Management and Grower Profitability

Unraveling the mystery of compost teas used for organic disease and insect pest management



PFI Webinars



PFI Research Reports

Title	Year	Category
Soybean Row-Width and Seeding Date When Using a Roller-Crimper for Cereal Rye Cover Crop	2018	
Fatty Acid Comparisons of Grain and Forage-Fed Pork	2018	
Strawberry Establishment and Production Enterprise Budget	2018	
Terminating Cereal Rye Cover Crops After Planting Soybeans	2018	
No-till vs. Strip-till Corn and Soybeans Following a Cereal Rye Cover Crop	2018	

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https://nifa.usda.gov/eligible-commodity-boards

RESEARCH BOARDS/COMMISSIONS

NATIONAL BOARDS

- Beef Board
- Blueberry Council
- Christmas Tree Board
- Cotton Board
- Dairy Board
- Egg Board
- Fluid Milk Board
- Hass Avocado Board
- Honey Board
- Lamb Board
- Mango Board
- Mushroom Council
- Paper and Paper-Based Packaging Boar
- Peanut Board
- Popcorn Board
- Pork Board
- Potato Board
- Processed Raspberry Council
- Softwood Lumber Board
- Sorghum Board
- Soybean Board
- Watermelon Board

FEDERAL MARKETING ORDER BOARDS & COMM

- Administrative Committee for Pistachios
- Almond Board of California
- American Pecan Council
- California Date Administrative Committee
- California Dessert Grape Administrative Comm
- California Olives Committee
- California Raisin Administrative Committee
- California Walnut Board
- Cherry Industry Administrative Board
- Colorado Potato Committee
- Cranberry Marketing Committee
- Florida Avocado Administrative Committee
- Florida Citrus Administrative Committee
- Florida Tomato Committee
- Hazelnut Marketing Board
- Idaho-Eastern Oregon Onion Committee
- Kiwifruit Administrative Committee
- Oregon/Washington Fresh and Processed Pear
- Prune Marketing Committee
- South Texas Onion Committee
- Spearmint Oil Administrative Committee
- Texas Valley Citrus Committee
- Vidalia Onion Committee
- Walla Walla Sweet Onion Committee
- Washington Apricot Marketing Committee
- Washington Cherry Marketing Committee

STATE BOARDS & COMMITTEES

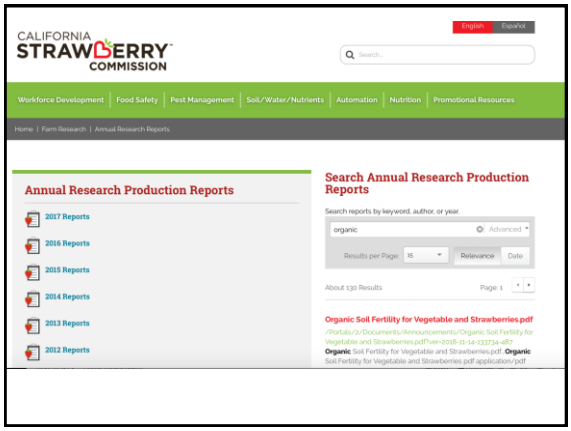
- California Cherry Board
- California Pear Advisory Board
- California Wheat Commission
- Dairy Council of California
- Idaho Wheat Commission
- Illinois Corn Marketing Board
- Illinois Soybean Board
- Iowa Corn Promotion Board
- Kansas Wheat Commission
- Michigan Blueberry Commission
- North Central Soybean Research Program
- Northern Canola Growers Association
- Olive Oil Commission of California
- Oregon Wine Board
- Washington State Potato Commission
- Washington State Wine Commission

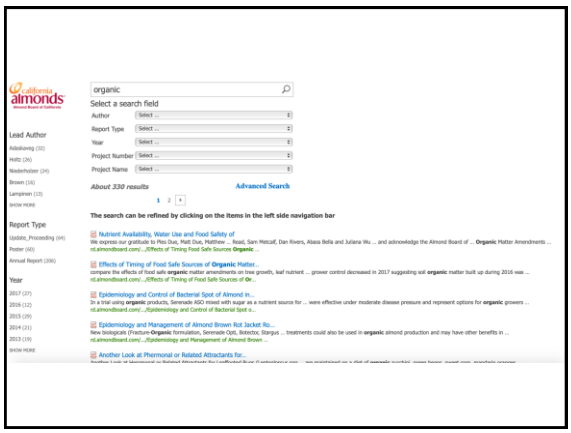
https://ari.calstate.edu/funding_sources/california_commodity_boards.aspx

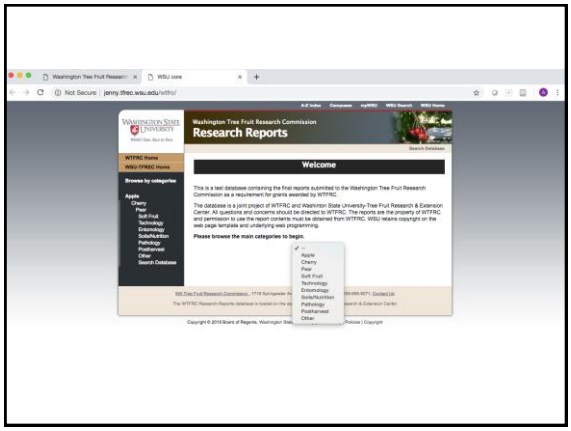
CALIFORNIA COMMODITY BOARDS

These commodity boards define research priorities for each year that they offer funding. Note: Each of these boards has marketing, product development and research responsibilities; however, the board will decide the funding priority of each of these each year.

Alfalfa Seed Production Research Advisory Board
Almond Board of California – See http://www.almonds.com
California Apple Commission - See http://www.calapple.org
California Artichoke Advisory Board – See http://artichokes.org
California Asparagus Commission – See http://www.calasparagus.com
California Avocado Commission – See http://www.californiaavocado.com
California Beef Council –See http://www.calbeef.org
California Blueberry Commission – See http://www.calblueberry.org
California Cantaloupe Advisory Board – See http://www.californiacantaloupes.com
California Celery Research Advisory Board – See http://celeryinc.com
California Cheese and Butter Association - See http://www.cacheeseandbutter.org
California Cherry Advisory Board – See http://www.catcherry.com
California Citrus Research Board – See http://citrusresearch.org
California Cling Peach Growers Board – See http://www.calclingpeach.com
California Cut Flower Commission – See http://www.ccfc.org
California Dairy Research Foundation - See http://www.cdrf.org
California Date Commission – See http://www.datesaregreat.com
California Dried Plum Board – See http://www.californiadriedplums.org
California Dry Bean Advisory Board – See http://www.calbeans.org
California Egg Commission
California Fig Advisory Board – See http://californiafigs.com
California Fresh Carrot Advisory Board
California Garlic and Onion Dehydrator Advisory Board
California Garlic and Onion Research Advisory Board – See http://www.cagarlicandonion.com
California Grape Rootstock Improvement Commission
California Grown – See http://www.californiagrown.org
California Kiwifruit Commission – See http://www.kiwifruit.org
California Leafy Greens Research Program – See http://calgreens.org
California Melon Research Board – See http://www.cmrb.org
California Milk Processor Board – See http://www.got2milk.com
California Milk Producers Advisory Board – See http://www.realcaliforniamilk.com
California Olive Committee – See http://calolive.org
California Pear Advisory Board – See http://www.calpear.com
California Pepper Commission – See http://www.calpeppers.com
California Pistachio Research Board – See http://www.calpistachioresearch.org
California Plum Advisory/Marketing Board
California Potato Research Advisory Board
California Raisin Marketing Board – See http://calraisins.org



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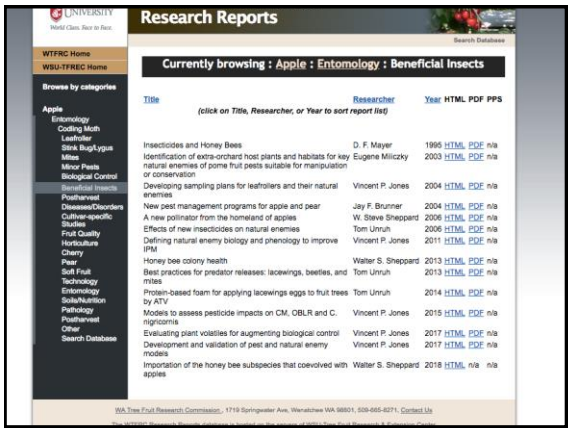
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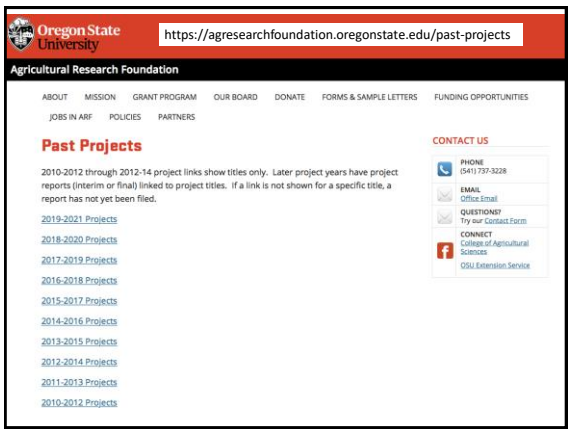
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Agricultural Research Foundation
Past Projects
2010-2012 through 2012-14 project links show titles only. Later project years have project reports (interim or final) linked to project titles. If a link is not shown for a specific title, a report has not yet been filed.
2019-2021 Projects
2018-2020 Projects
2017-2019 Projects
2016-2018 Projects
2015-2017 Projects
2014-2016 Projects
2013-2015 Projects
2012-2014 Projects
2011-2013 Projects
2010-2012 Projects

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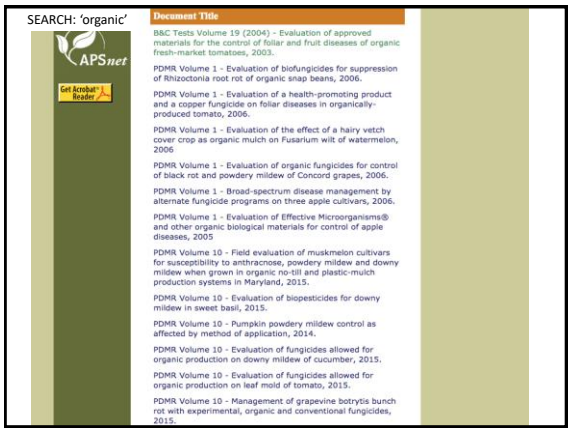

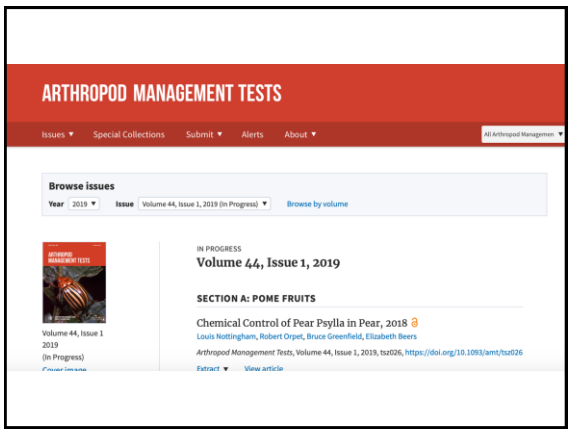

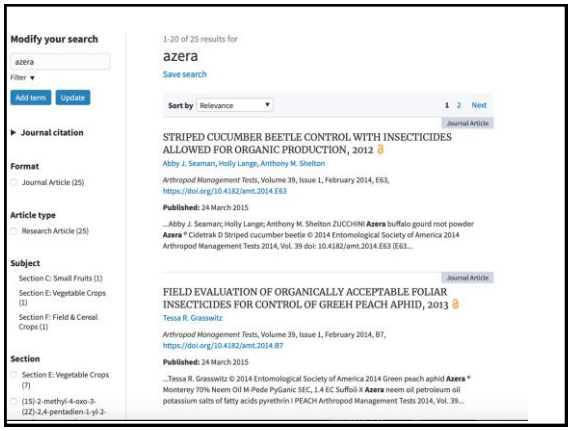
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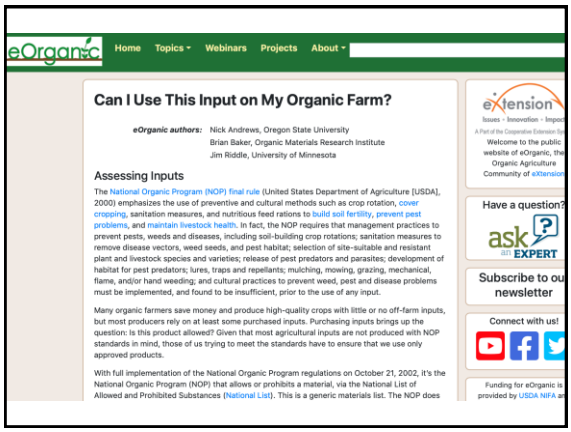
Journal Article
STRIPED CUCUMBER BEETLE CONTROL WITH INSECTICIDES ALLOWED FOR ORGANIC PRODUCTION, 2012
Abby J. Seaman, Holly Lange, Anthony M. Shelton
Arthropod Management Tests, Volume 39, Issue 1, February 2014, E63, https://doi.org/10.4182/amt.2014.E63
Published: 24 March 2015
...Abby J. Seaman; Holly Lange; Anthony M. Shelton ZUCCHINI Azera buffalo gourd root powder Azera ® Cidetrak D Striped cucumber beetle © 2014 Entomological Society of America 2014 Arthropod Management Tests 2014, Vol. 39 doi: 10.4182/amt.2014.E63 (E63...
Journal Article
FIELD EVALUATION OF ORGANICALLY ACCEPTABLE FOLIAR INSECTICIDES FOR CONTROL OF GREEH PEACH APHID, 2013
Tessa R. Grasswitz
Arthropod Management Tests, Volume 39, Issue 1, February 2014, B7, https://doi.org/10.4182/amt.2014.B7
Published: 24 March 2015
...Tessa R. Grasswitz © 2014 Entomological Society of America 2014 Green peach aphid Azera ® Monterey 70% Neem Oil M-Pede PyGanic 5EC, 1.4 EC Suffoil-X Azera neem oil petroleum oil potassium salts of fatty acids pyrethrin I PEACH Arthropod Management Tests 2014, Vol. 39...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Can I Use This Input on My Organic Farm?
eOrganic authors: Nick Andrews, Oregon State University
Brian Baker, Organic Materials Research Institute
Jim Riddle, University of Minnesota
Assessing Inputs
The National Organic Program (NOP) final rule (United States Department of Agriculture [USDA], 2000) emphasizes the use of preventive and cultural methods such as crop rotation, cover cropping, sanitation measures, and nutritious feed rations to build soil fertility, prevent pest problems, and maintain livestock health. In fact, the NOP requires that management practices to prevent pests, weeds and diseases, including soil-building crop rotations; sanitation measures to remove disease vectors, weed seeds, and pest habitat; selection of site-suitable and resistant plant and livestock species and varieties; release of pest predators and parasites; development of habitat for pest predators; lures, traps and repellants; mulching, mowing, grazing, mechanical, flame, and/or hand weeding; and cultural practices to prevent weed, pest and disease problems must be implemented, and found to be insufficient, prior to the use of any input.
Many organic farmers save money and produce high-quality crops with little or no off-farm inputs, but most producers rely on at least some purchased inputs. Purchasing inputs brings up the question: Is this product allowed? Given that most agricultural inputs are not produced with NOP standards in mind, those of us trying to meet the standards have to ensure that we use only approved products.
With full implementation of the National Organic Program regulations on October 21, 2002, it's the National Organic Program (NOP) that allows or prohibits a material, via the National List of Allowed and Prohibited Substances (National List). This is a generic materials list. The NOP does
eXtension
Welcome to the public website of eOrganic, the Organic Agriculture Community of eXtension
Have a question?
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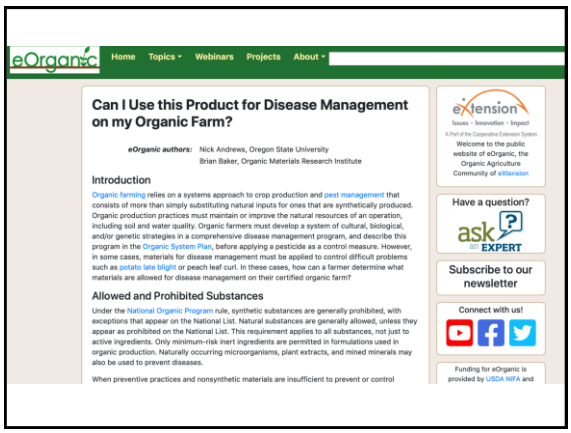
Funding for eOrganic is provided by USDA NIFA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Can I Use this Product for Disease Management on my Organic Farm?
eOrganic authors: Nick Andrews, Oregon State University
Brian Baker, Organic Materials Research Institute
Introduction
Organic farming relies on a systems approach to crop production and pest management that consists of more than simply substituting natural inputs for ones that are synthetically produced. Organic production practices must maintain or improve the natural resources of an operation, including soil and water quality. Organic farmers must develop a system of cultural, biological, and/or genetic strategies in a comprehensive disease management program, and describe this program in the Organic System Plan, before applying a pesticide as a control measure. However, in some cases, materials for disease management must be applied to control difficult problems such as potato late blight or peach leaf curl. In these cases, how can a farmer determine what materials are allowed for disease management on their certified organic farm?
Allowed and Prohibited Substances
Under the National Organic Program rule, synthetic substances are generally prohibited, with exceptions that appear on the National List. Natural substances are generally allowed, unless they appear as prohibited on the National List. This requirement applies to all substances, not just to active ingredients. Only minimum-risk inert ingredients are permitted in formulations used in organic production. Naturally occurring microorganisms, plant extracts, and mined minerals may also be used to prevent diseases.
When preventive practices and nonsynthetic materials are insufficient to prevent or control
eXtension
Welcome to the public website of eOrganic, the Organic Agriculture Community of eXtension
Have a question?
ask an EXPERT
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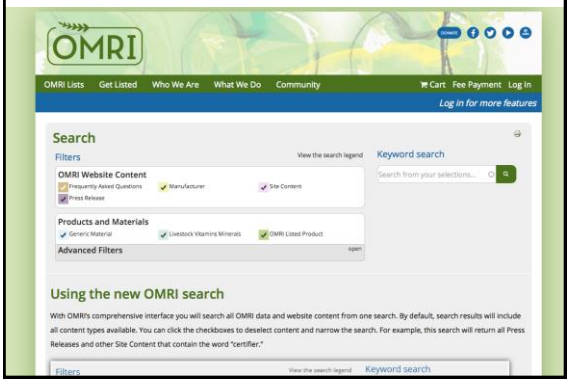
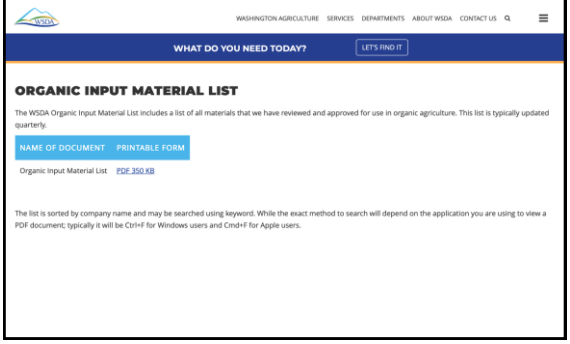
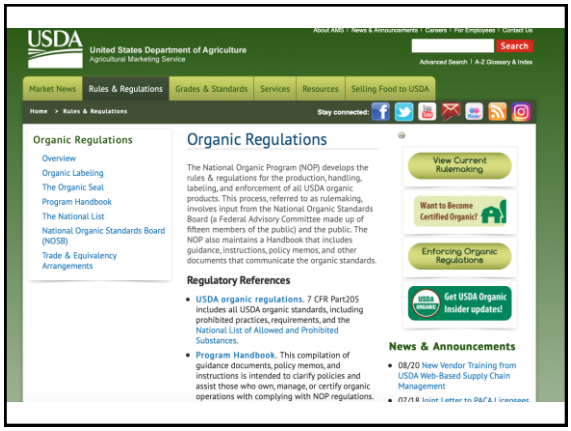
Funding for eOrganic is provided by USDA NIFA and

https://www.omri.org/ubersearch



WSDA Inputs List





What resources am I missing?
Let me know!