



The Ohio Sensitive Crop Registry

provided by

FieldWatch

Jared Shaffer, Plant Health Inspector
Pesticide & Fertilizer Regulation Section
Division of Plant Health

What is the registry?

- A free, voluntary, online mapping tool
 - allows both farmers and applicators to identify, map and communicate where high-value specialty crops are grown and where honey bee hives are kept
- What is a specialty crop?
 - Fruits, vegetables, orchards, nurseries, organic

Why do we have a registry?

- The registry is a communications tool, to increase awareness between specialty crop producers, beekeepers and pesticide applicators
- Goal is that increased awareness of sensitive locations will reduce the risk of drift and off-target damage
 - Increased acceptance & operational freedom

Financial Risk

- Damages to specialty crops can be costly

Crop	Yield	Price	Total
Soybean	54 bu/acre	\$9.66/bu	\$520/acre
Tomato	27 ton/acre	\$107/ton	\$2,900/acre
Grape	3.6 ton/acre	\$1,530/ton	\$5,600/acre

- Replacement cost could be over several years



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Legal Obligations

- Any pesticide user is legally required to notify beekeepers 24 hours in advance **IF**:
 - The product is labeled as being toxic to honey bees **AND**
 - They are using it over at least ½ acre **AND**
 - The crop-plant is in flower **AND**
 - The apiary is within ½ mile of the area **AND**
 - The apiary is registered with the apiary program



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Label Restrictions

9.1.4.b. Susceptible Crops

DO NOT APPLY this product when the wind is blowing toward adjacent non-dicamba tolerant susceptible crops; this includes **NON-DICAMBA TOLERANT SOYBEAN AND COTTON**.



Before making an application, the applicator must survey the application site for adjacent non-target susceptible crops. The applicator must also consult applicable sensitive crop registries to identify any commercial specialty or certified organic crops that may be located near the application site.

Susceptible crops include, but are not limited to non-dicamba tolerant soybeans and cotton, tomatoes and other fruiting vegetables (EPA crop group 8), fruit trees, cucurbits (EPA crop group 9), grapes, beans, flowers, ornamentals, peas, potatoes, sunflower, tobacco, other broadleaf plants, and including plants in a greenhouse. Severe injury or destruction could occur if any contact between this product and these plants occurs.

9.1.5 Application Awareness

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.

Risk Reduction

- Risk can be reduced through:
 - Training/education
 - How to correctly use the product & equipment
 - Awareness
 - Knowing where sensitive locations are
- Reduce financial & legal risk, as well as improve public acceptance of pesticide use

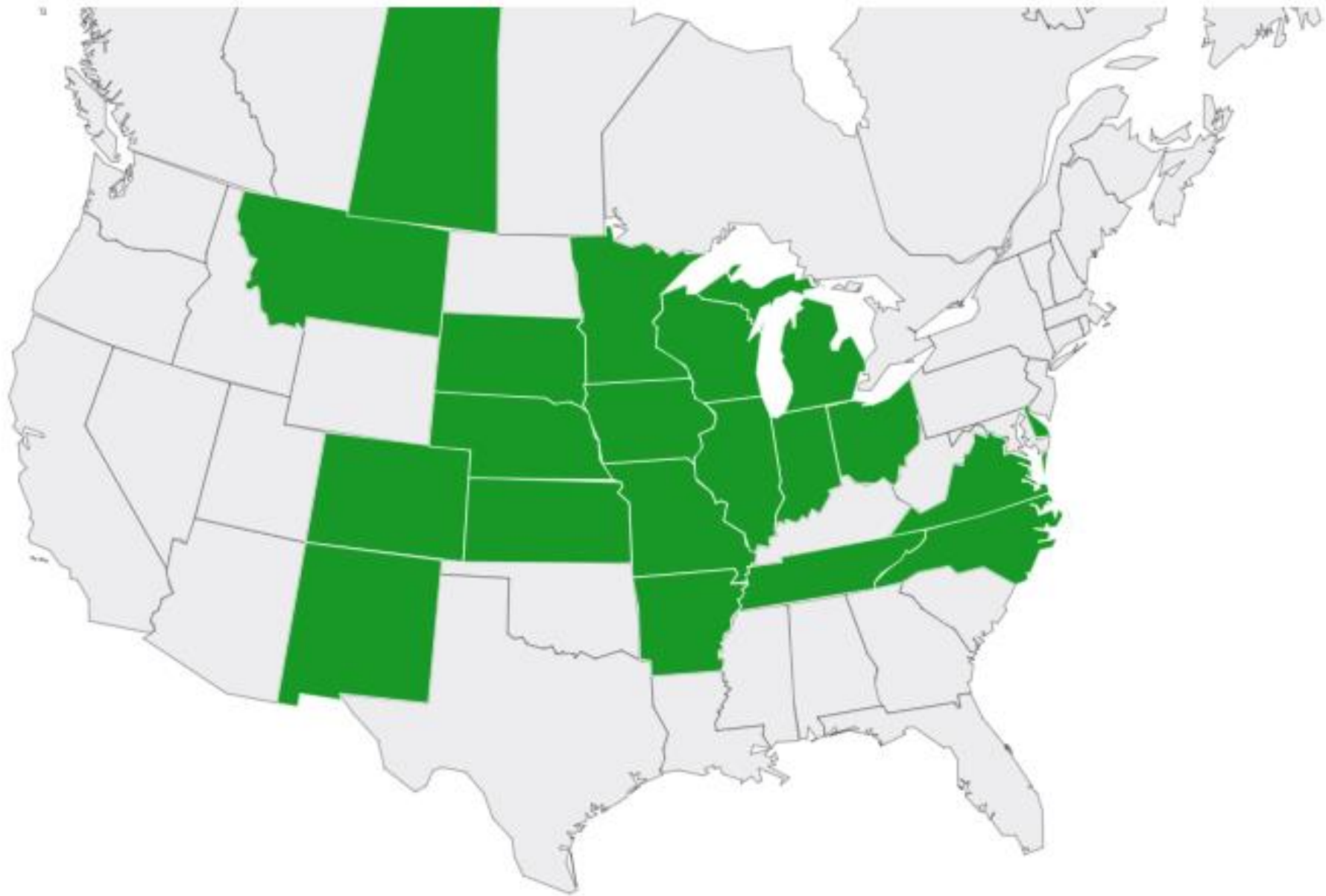
Ohio Sensitive Crop Registry

- Version 1: Created by ODA and launched in March 2014
- Version 2: Ohio joined the nationwide FieldWatch program in March 2018
 - DriftWatch, BeeCheck



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- The DriftWatch program was developed by Purdue University in 2008, for Indiana farmers and applicators.
- FieldWatch is a non-profit company created in 2012 to develop and operate the DriftWatch Specialty Crop Site & BeeCheck Apiary Registries.
 - Funded by state departments of ag, corporate sponsors and our producer and applicator members.
 - DriftWatch for crop producers
 - BeeCheck for beekeepers



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FieldWatch Membership



- ✓ Member States
- ✓ Sponsors (Food/Ag Companies, Retailers)
- ✓ Trade Associations
- ✓ Applicators
- ✓ Producers
- ✓ Friends of FieldWatch

Sponsors

Aon Risk Solutions
BASF Corporation
Bayer Bee Care Center
Colorado Agriculture Aviation Assn.
Crop Production Services (CPS)
Dow AgroSciences LLC
Gowan
GROWMARK
Illinois Agricultural Aviation Assn
Illinois Farm Bureau
Illinois Fertilizer and Chemical Assoc.
Indiana Horticultural Society

MFA, Inc.
Michigan Farm Bureau
Midwest Food Processors
Minnesota Crop Production Retailers
Monsanto Company
Purdue University
Red Gold, Inc.
Schertz Aerial Service
Syngenta
Valent
Winfield
Wolf Consulting & Research, LLC
2-4, D Task Force



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Kevin Johnson - Illinois Fertilizer and Chemical Association (**Chair**)
Patrick Jones - North Carolina Depart Agriculture & Consumer Services

EX-OFFICIO:

Karen Plaut/Bernie Engel – Purdue Department of Agriculture

General Guidance & Scope

- Only submissions from commercial producers are included in the DriftWatch map—not homeowners or gardeners.
- All mapped fields must be at least ½ half acre in size.
- Both hobbyist and commercial beekeepers are included

General Guidance & Scope

- Specialty crops include:
 - all commercial fruit and vegetable crops, grapes, nurseries, tobacco, herbs, greenhouses, orchards, tree crops and flowers
- FieldWatch does not include crops based on “pesticide sensitivity” since all crops can be pesticide sensitive.
 - we do not include commodity field crops such as field corn, soybeans, cotton, rice, hay (alfalfa), wheat or pasture unless they are certified organic.
 - FieldWatch does not map different types of herbicide- tolerant, conventional or non-genetically modified crops.

[Go To My Location](#)

Sites Needing Approval

Filter Growing Conditions

- ☒ All
- ☒ Conventionally Grown
- ☒ Organically Grown (in states permitted)
- ☒ Certified Organic

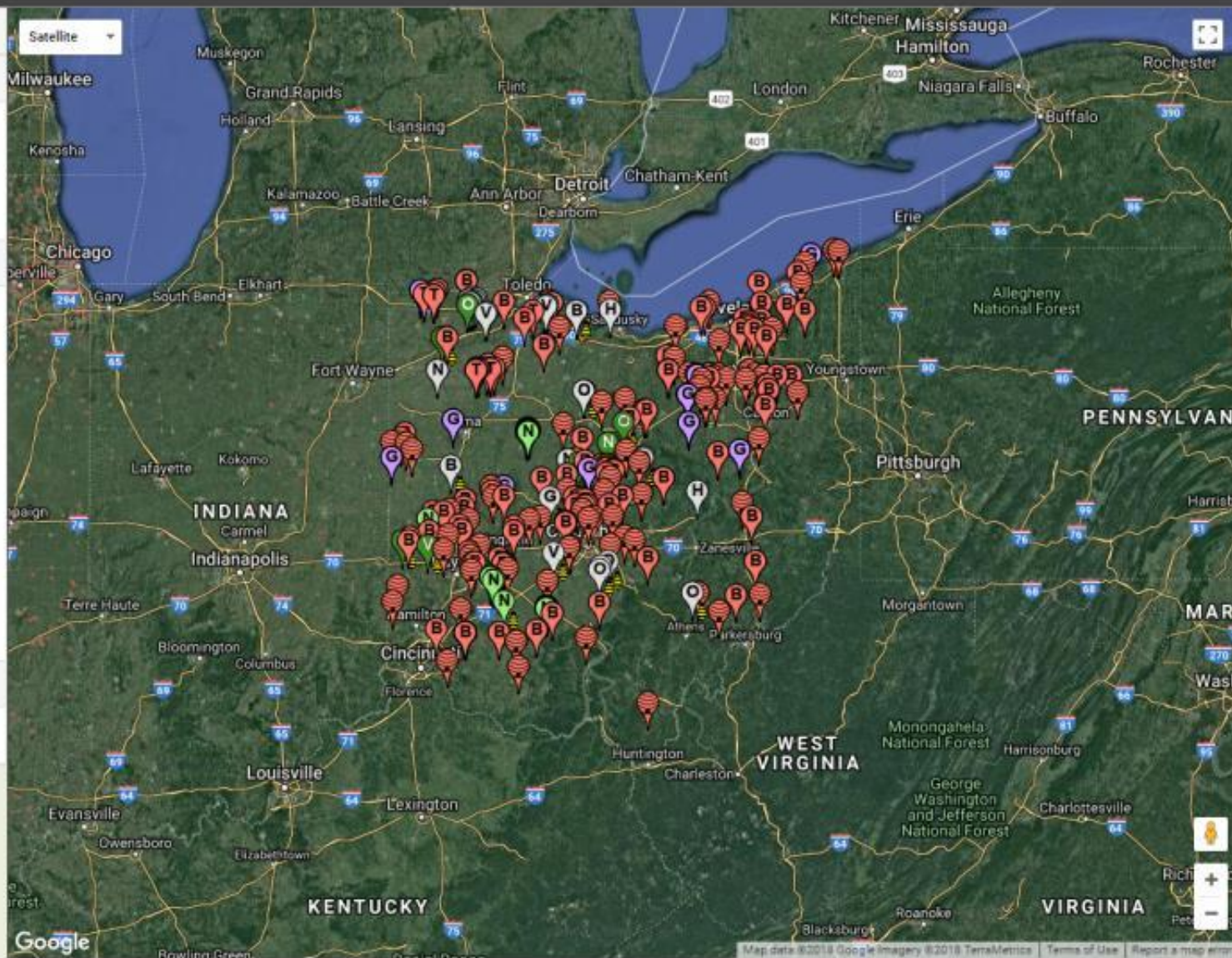
Filter Crop Types

ALL STATES OH

- ☒ All
- ☒ Aquaculture
- ☒ Beehives
- ☒ Brambles/Berries
- ☒ Fruit (Other)
- ☒ Grapes
- ☒ Greenhouse - High Tunnel
- ☒ Hops
- ☒ Non-specialty Certified Organic
- ☒ Nurseries
- ☒ Orchard
- ☒ Tomatoes
- ☒ Vegetables (other)
- ☒ Other

Toggle Map Overlays

- ☒ State Apiary Distance
- ☐ County Lines



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BEEHIVES

Beehive OH-30354

"Rothenbuhler Honey Bee Research Lab"

Submitted 03/05/2018 Approved 03/05/2018

Updated 03/05/2018

Number of Hives for this submission: 12

Information

Modifications

Producer: Reed Johnson

Website: <http://u.osu.edu/beelab/>

Company: The ohio state university

Notes: Research Apiary

Email: johnson.5005@osu.edu

Site Link: <https://oh.driftwatch.org/map?view=OH-30354>

Address: 1680 Madison Ave.
Wooster OH 44691

Center: Latitude: 40.011341
Longitude: -83.040948

Phone: 3302023523

Purpose: Hobbyist

Location Type: Permanent for the Season

Registered with State: Yes

[Remove Site Approval](#)

[Make Changes to Site](#)

[Remove This Site](#)

[Close](#)

Google

Map data ©2018 Google Imagery ©2018 DigitalGlobe, LandSat / Copernicus, U.S. Geological Survey, USDA Farm Service Agency | [Terms of Use](#) | [Report a map error](#)

- OSCR is a service provided by ODA to be used by the stakeholders
 - 100% user driven, ODA does not use or maintain data
- All users will need to create an account via the website
- Producers and apiarists may log-in at **any time** and create, edit, delete their mapped sites
 - Annual site renewals is required

driftwatch™
Specialty Crop Site Registry
by FieldWatch

INDIANA SPECIALTY CROP SITE REGISTRY

About DriftWatch Map Resources

EXPORT SITES IN MY AREA Go To My Location

Growing Conditions

- ☒ All
- ☒ Conventionally Grown
- ☒ Organically Grown (in states permitted)
- ☒ Certified Organic

Crop Types ALL STATES IN

- ☒ All
- ☒ Beehives
- ☒ Christmas Trees
- ☒ Fish Farm
- ☒ Floriculture or Greenhouse
- ☒ Fruits
- ☒ Grapes
- ☒ Greenhouse - High Tunnel
- ☒ Hardwood Plantation
- ☒ Mint or Herbs
- ☒ Non-specialty Certified Organic
- ☒ Nursery Crops
- ☒ Pastures
- ☒ Pumpkins or Melons
- ☒ Tobacco
- ☒ Tomatoes
- ☒ Vegetables
- ☒ Other

Map Overlay

Applicator Access – Two Ways



Register on FieldWatch (FREE)

- All crop sites
- All beehives
- Email notifications of new sites



Member data subscription

- All sites
- Downloadable or live stream through software provider

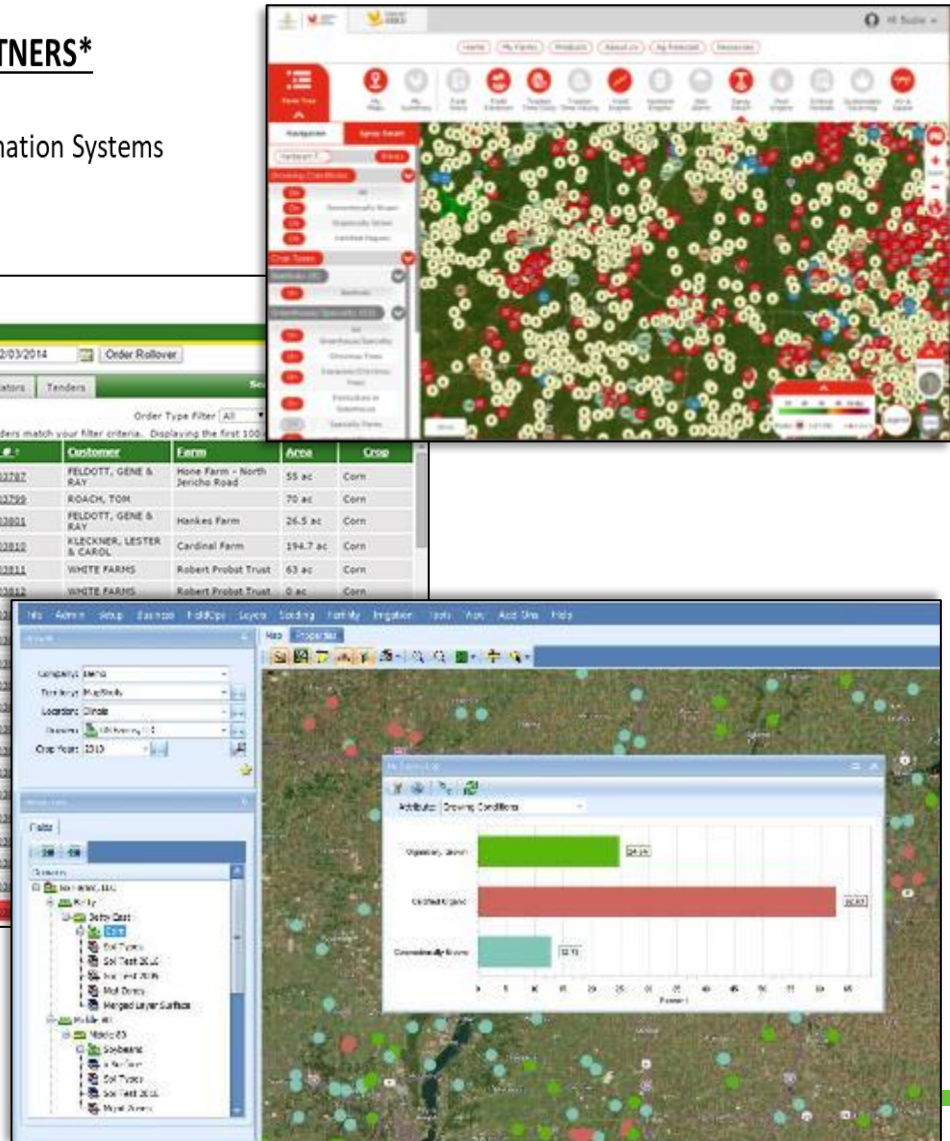
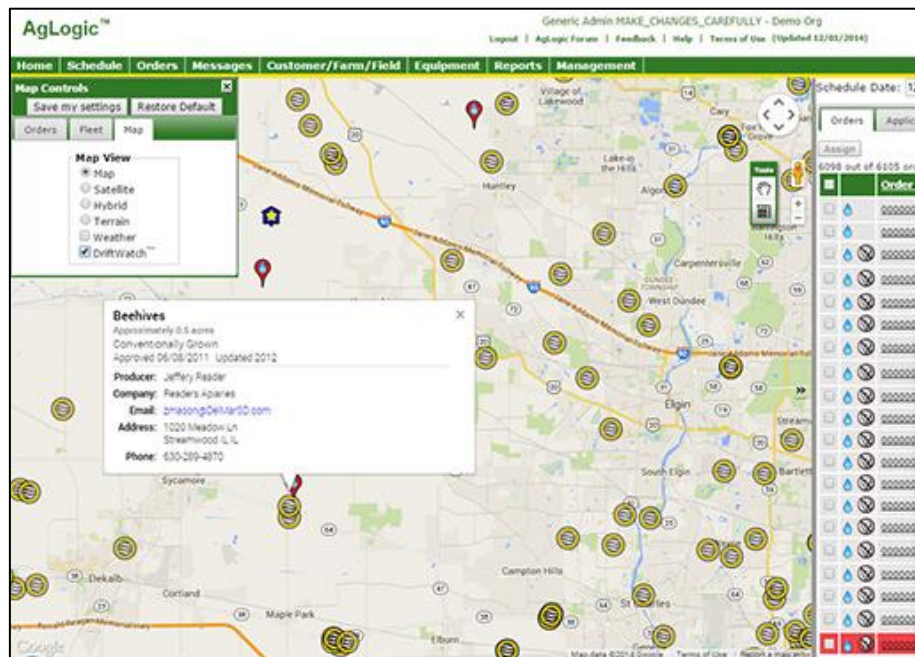
Technology Partners

SOFTWARE PROVIDER PARTNERS*

Esri ArcGIS	Soilmap	Crop Track
Ground Point Nine	SSI Agvance	Co-Alliance
MapShots AgStudio	Chem Man	Agribile

LICENSEE PARTNERS*

AgriData Inc.
AgriSmart Information Systems
AgSync, Inc.



*A few companies have asked for privacy

Current Ohio Users

Type	Count
Applicator	167
Beekeeper	238
Producer	144
TOTAL	549



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Crop Type	Count	Acres
Apiaries	365	
Brambles/Berries	11	48
Fruit (Other)	5	29
Grapes	25	217
Greenhouse - High Tunnel	10	133
Hops	7	24
Non-specialty Certified Organic	72	4,656
Nursery Crops	23	1,013
Orchard	14	333
Other	31	1,848
Tomatoes	62	2,677
Vegetables (other)	35	753

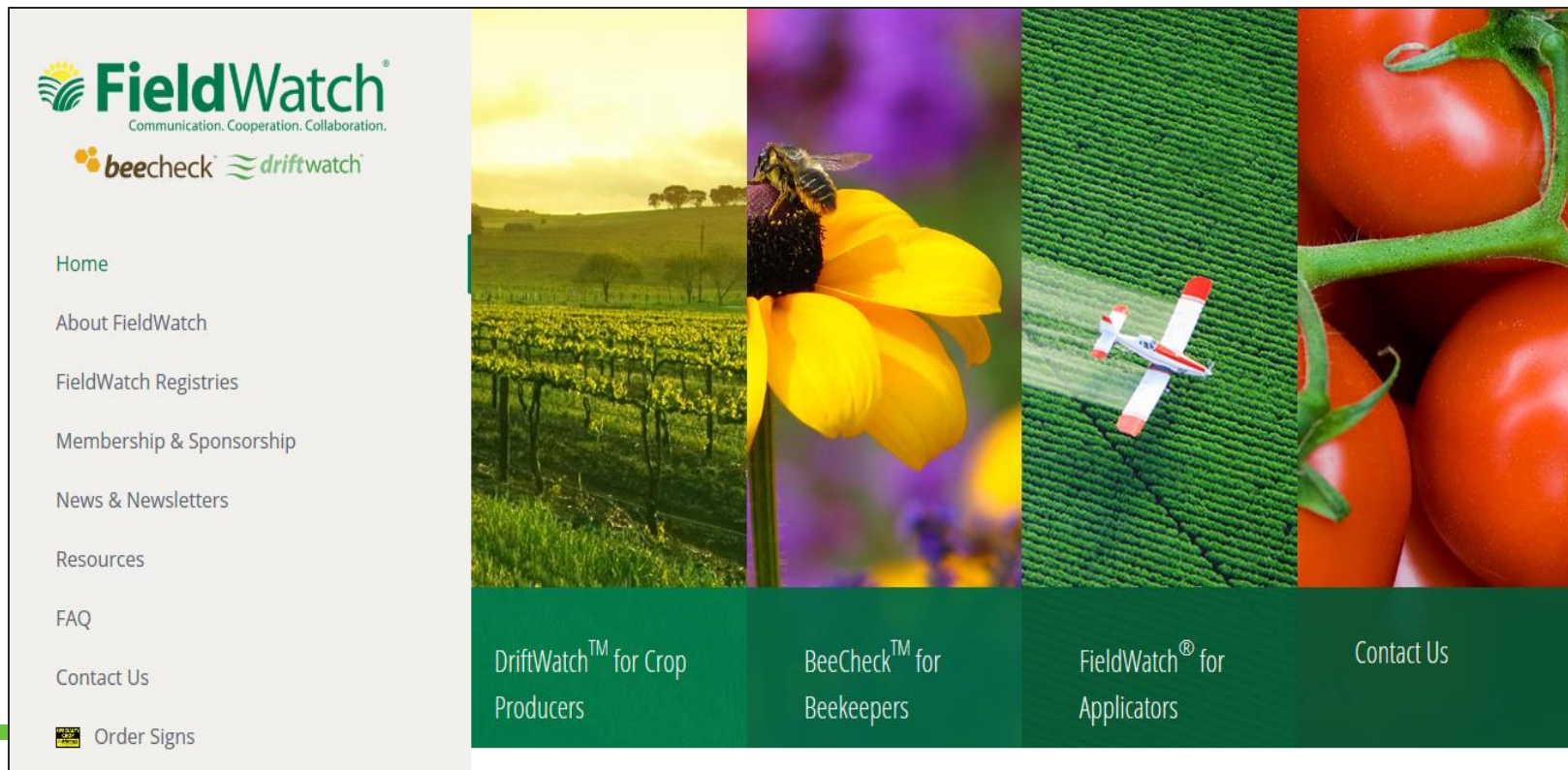
* As of 04/09/2018



How to Use the Stewardship Platform

How to Sign Up

- ✓ Go to www.fieldwatch.com
- ✓ Click on “FieldWatch for Applicators”
- ✓ Follow the steps to create an account
- ✓ Set up an optional alert area





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DriftWatch™ for Crop Producers	BeeCheck™ for Beekeepers	FieldWatch® for Applicators	Contact Us

Welcome to FieldWatch® 2017

Communication + Cooperation + Collaboration = Successful Co-existence

This site is a voluntary communication tool that enables crop producers, beekeepers, and pesticide applicators to work together to protect specialty crops and apiaries through use of mapping programs. It is not a substitute for any state regulatory requirements.

For more resources and information, please visit [FieldWatch, Inc.](#)



Access My Map

If you are a producer or an applicator and already have a FieldWatch, BeeCheck, or DriftWatch Account, log in here.

Login

Username:

Password:

Don't have a FieldWatch Account yet?



Map My Specialty Crops

[Click here to sign up as a commercial crop producer.](#)



Map My Apiaries

[Click here to sign up if you only keep bees.](#)



Applicator Registration

[Click here to sign up if you are a licensed applicator.](#)

Sign up for Free Site Alerts

Registered DriftWatch Applicators get automatic email notifications of new sites in selected areas. You can select to receive notifications statewide, county-by-county, or in specially designated regions of your choosing.

Notification Options

- ☐ Entire State / Province
- ☐ Select Counties
- ☐ Draw a custom region on the map
- ☐ I do not wish to receive free site alerts at this time

Finish



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FieldWatch Resources

www.fieldwatch.com/resources

- FieldWatch FAQ
- User Guide: How to Register your Crops & Beehives in FieldWatch
- FieldWatch Scope & Guidelines
- NEW in 2018: VIDEOS!



Frequently Asked Questions: General

What is FieldWatch?

FieldWatch, Inc. is a non-profit company created to develop and expand the operation of the DriftWatch Specialty Crop Site and BeeCheck Apiary registries. To support the rapid growth of DriftWatch outside of Indiana, Purdue University collaborated with other agricultural stakeholder groups in the creation of a non-profit corporation called FieldWatch in December 2012. The new company has fully assumed the development and operational responsibilities of DriftWatch and BeeCheck as the stewardship tools expand nationwide.



Dear Beekeepers and Specialty Crop Producers:

Please find below a detailed "How To" for registering and entering site information for first time users of the FieldWatch online platforms (DriftWatch and BeeCheck). We hope you find the system to be user-friendly and a valuable communication and awareness tool.

To begin the registration process, please go to the FieldWatch (www.fieldwatch.com) and click on your industry segment (Producer or Beekeeper). In this document you will find detailed instructions from that point forward.

Thank you to Paul Ostrom from the Iowa Department of Agriculture and Land Stewardship for developing this guide. My contact information is provided on this page as well as at the end of this document. Please contact me if you have any questions. Thank you for participating in FieldWatch!

Sincerely,

Bob Walters



Promoting Awareness and Stewardship through Communication and Collaboration

FieldWatch® is a non-profit collaborative organization that depends on the generosity of its sponsors and members in order to develop and operate the DriftWatch™ Specialty Crop Site and BeeCheck™ Apiary registries. We accept membership applications from companies, organizations and individuals that want to support the continued innovation and implementation of our voluntary platform. As FieldWatch seeks to facilitate increased collaboration and communication between specialty crop producers, beekeepers and pesticide applicators, we appreciate the support of our sponsors and members.

Communication Tools

@FieldWatchInc

New and updated Communication Assets:

- ✓ FieldWatch Branded Collateral
- ✓ Newsletter – Expanded distribution list
- ✓ Banners and other tools for State Partners
- ✓ PowerPoints
- ✓ User Guides
- ✓ FAQ
- ✓ Social Media
- ✓ New Website
- ✓ How-To Videos coming in 2018!



FieldWatch
Communication. Cooperation. Collaboration.

An online mapping registry to promote communications between producers of specialty crops, beekeepers, and pesticide applicators in support of ongoing stewardship activities.

Learn more and sign up at: FieldWatch.com
Follow us: @FieldWatchInc

driftwatch
Specialty Crops Site Registry
by FieldWatch

beecheck
Apiculture Registry
by FieldWatch

Field Signs Available

To further promote awareness and communication in the field at the site





Technology Upgrades & Innovation:

➤ Notification System Upgrades (i.e. text)

➤ New Apps:

✓ “FieldCheck” for Applicators (and Growers)

- Sign-in; Create account
- Map: Detailed Site and Contact View, Find Sites Near Me (options on defined area)
- Notification when sites added or removed
- Increased functionality and visibility
- API design to communicate with other technology platforms
- Available for FREE on Apple/Android systems

✓ BeeCheck for Beekeepers

- Sign-in; Create account
- Increased functionality; ease of moving hives through GPS
- Same security functions (allows for privacy)
- Available for FREE on Apple/Android systems

www.fieldwatch.com

Jared Shaffer, Plant Health Inspector, Ohio Dept Ag

Phone: 614-728-6386

Email: Jared.Shaffer@agri.ohio.gov

Tech support, business questions, membership:

Email: info@fieldwatch.com

Phone: 887-443-4353



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FieldWatch[®]

Communication. Cooperation. Collaboration.

Thank you!

