# NMDA STATE UPDATES

PESTICIDE COMPLIANCE

STEPHEN BACA- INSPECTOR SUPERVISOR

NEW MEXICO DEPARTMENT OF AGRICULTURE

# STATE UPDATES


New employees

Certification Rule on hold

License Renewal Time

JACOB KRUSE
TARYN VAN WASSENHOVE

# 45 CASES THIS PAST YEAR

NEIGHBOR DISPUTES

COMMERCIAL APPLICATORS

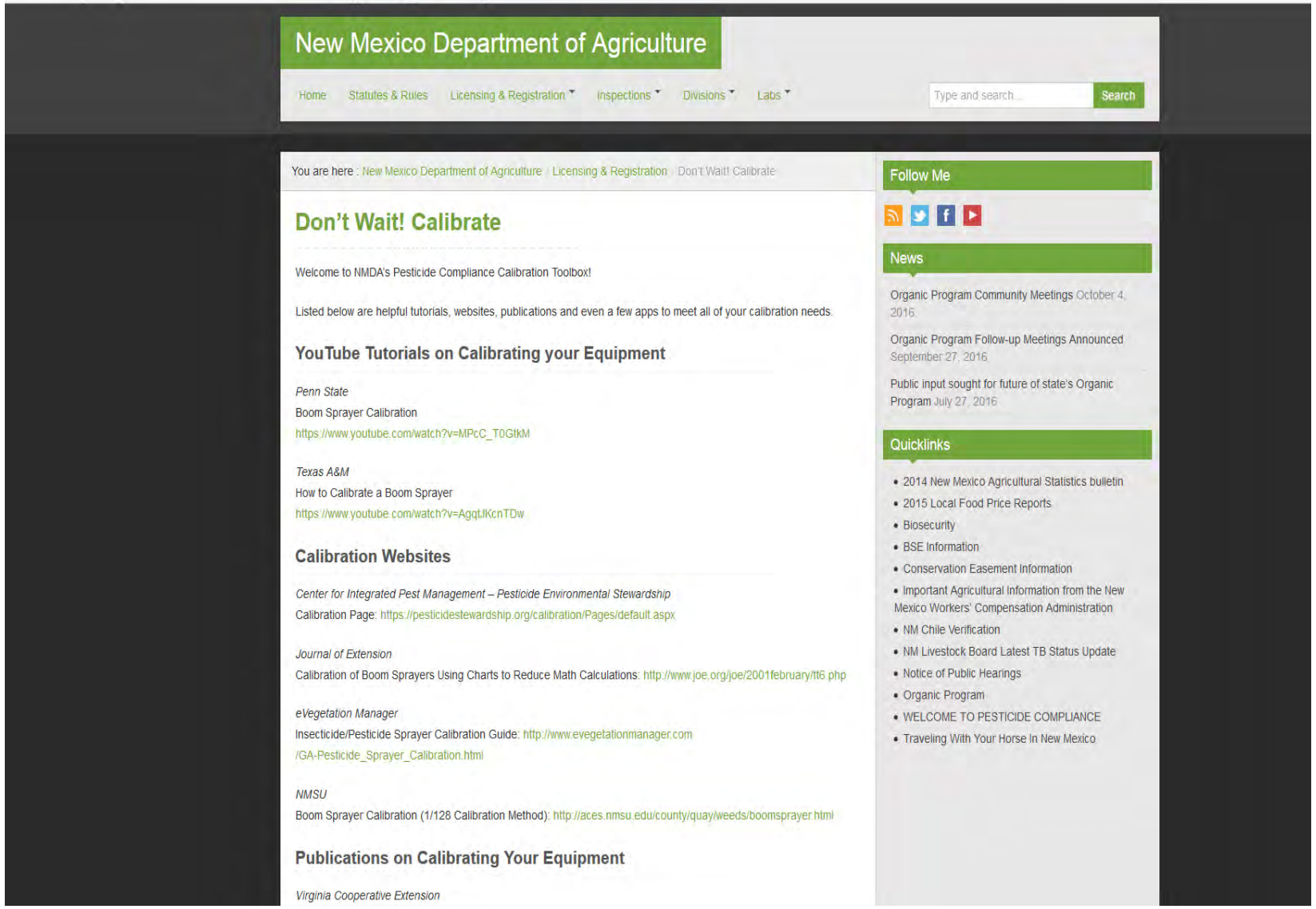
PRIVATE APPLICATORS

DRIFT

# DON'T WAIT, CALIBRATE

A new program started for outreach and education

From NMDA Pesticide Compliance


New Mexico Department of Agriculture
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Inspections
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Labs
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Search
You are here : New Mexico Department of Agriculture / Licensing & Registration / Don't Wait! Calibrate
Don't Wait! Calibrate
Welcome to NMDA's Pesticide Compliance Calibration Toolbox!
Listed below are helpful tutorials, websites, publications and even a few apps to meet all of your calibration needs.
YouTube Tutorials on Calibrating your Equipment
Penn State
Boom Sprayer Calibration
https://www.youtube.com/watch?v=MPcC_T0GtkM
Texas A&M
How to Calibrate a Boom Sprayer
https://www.youtube.com/watch?v=AgqtJKcnTDw
Calibration Websites
Center for Integrated Pest Management – Pesticide Environmental Stewardship
Calibration Page: https://pesticidestewardship.org/calibration/Pages/default.aspx
Journal of Extension
Calibration of Boom Sprayers Using Charts to Reduce Math Calculations: http://www.joe.org/joe/2001february/tt6.php
eVegetation Manager
Insecticide/Pesticide Sprayer Calibration Guide: http://www.evegetationmanager.com
/GA-Pesticide_Sprayer_Calibration.html
NMSU
Boom Sprayer Calibration (1/128 Calibration Method): http://aces.nmsu.edu/county/quay/weeds/boomsprayer.html
Publications on Calibrating Your Equipment
Virginia Cooperative Extension
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News
Organic Program Community Meetings October 4, 2016
Organic Program Follow-up Meetings Announced September 27, 2016
Public input sought for future of state's Organic Program July 27, 2016
Quicklinks
2014 New Mexico Agricultural Statistics bulletin
2015 Local Food Price Reports
Biosecurity
BSE Information
Conservation Easement Information
Important Agricultural Information from the New Mexico Workers' Compensation Administration
NM Chile Verification
NM Livestock Board Latest TB Status Update
Notice of Public Hearings
Organic Program
WELCOME TO PESTICIDE COMPLIANCE
Traveling With Your Horse In New Mexico

# CALIBRATION BASICS

- AMOUNT OF PRODUCT SPRAYED OUT OVER TIME OVER AN AREA
- ONE CHANGE, CHANGES EVERYTHING

# TOP REASONS TO CALIBRATE

- From the label, it's the Law!
- Allows documentation of legal doses applied
- Prevent over or under application of pesticide
- Repeat successful procedures and minimization of expenses
- A tool to diagnose problems or failures in pesticide performance or plant injury

# FROM THE LABEL

- **High-volume Foliar Application**

For optimum performance when spraying medium-density to high-density vegetation, use equipment calibrated to deliver up to 100 gallons of spray solution per acre (GPA). Spray solutions exceeding 100 GPA may result in excessive spray runoff, causing increased ground cover injury and injury to desirable species.

**Broadcast Applications With Ground Equipment**
Apply using equipment that will ensure uniform coverage of the spray volumes applied. To improve spray coverage, add a non-ionic surfactant. See Maximum Labeled Rate versus Spray Volume per Acre table below for relationship between mixing rate, spray volume and maximum application rate.

# THINGS ON A LABEL TO LOOK FOR

- Enforceable Language
  - "Do Not…"
  - "Must…"
  - Directive language explaining how to do something
- Application Equipment Requirements or Restrictions
- Tank Mix Compatibilities

# LABEL EXAMPLE

- Pressure – **DO NOT** exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of Nozzles – use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation – Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- Nozzle Type – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift. **DO NOT** use nozzles producing a mist droplet spray.

# HELPFUL TIPS

- Read the label
- Pay attention to details
- Utilize technology (Google Maps)
- Communicate with NMDA so we can help


# New Mexico Department of Agriculture
# Pesticide Compliance

# WHERE WAS DRIFTWATCH CREATED

- Purdue's Agriculture Department created Driftwatch in 2008 as a Specialty Crop Site Registry

- FieldWatch, Inc. is a non-profit company created to develop and expand the operation of the DriftWatch Specialty Crop Site Registry. 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 2013.

- Field watch has assumed the operational responsibilities of DriftWatch and developed a national platform for the website

# DRIFTWATCH IN NEW MEXICO

- NMDA proudly took a key leadership role in implementing, administering and financially supporting this effective stewardship communication tool.

ORGANIC

APIARIES

PESTICIDE APPLICATORS

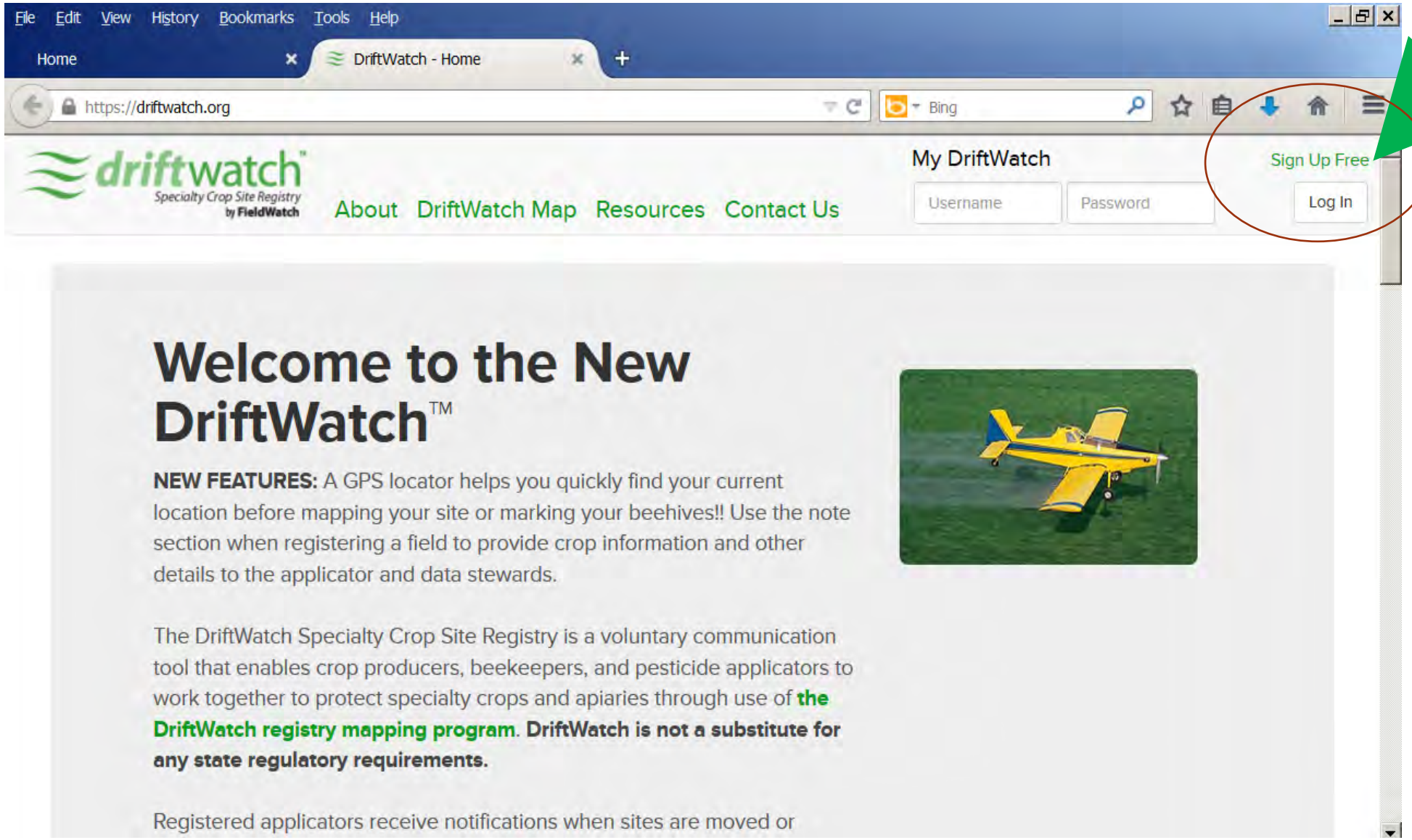
SPECIALTY PRODUCERS

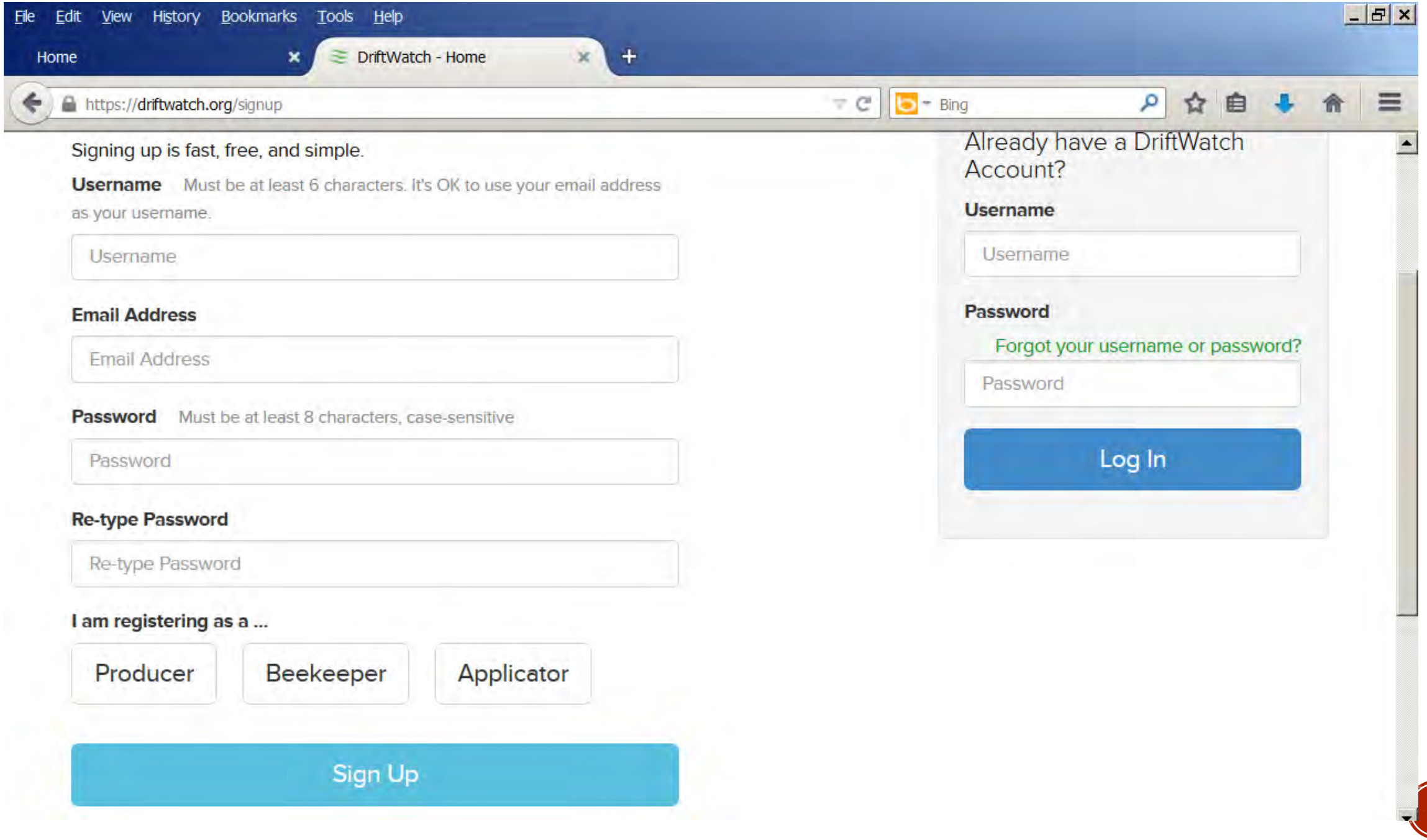
# WHAT IS DRIFT WATCH?

# BENEFITS?????

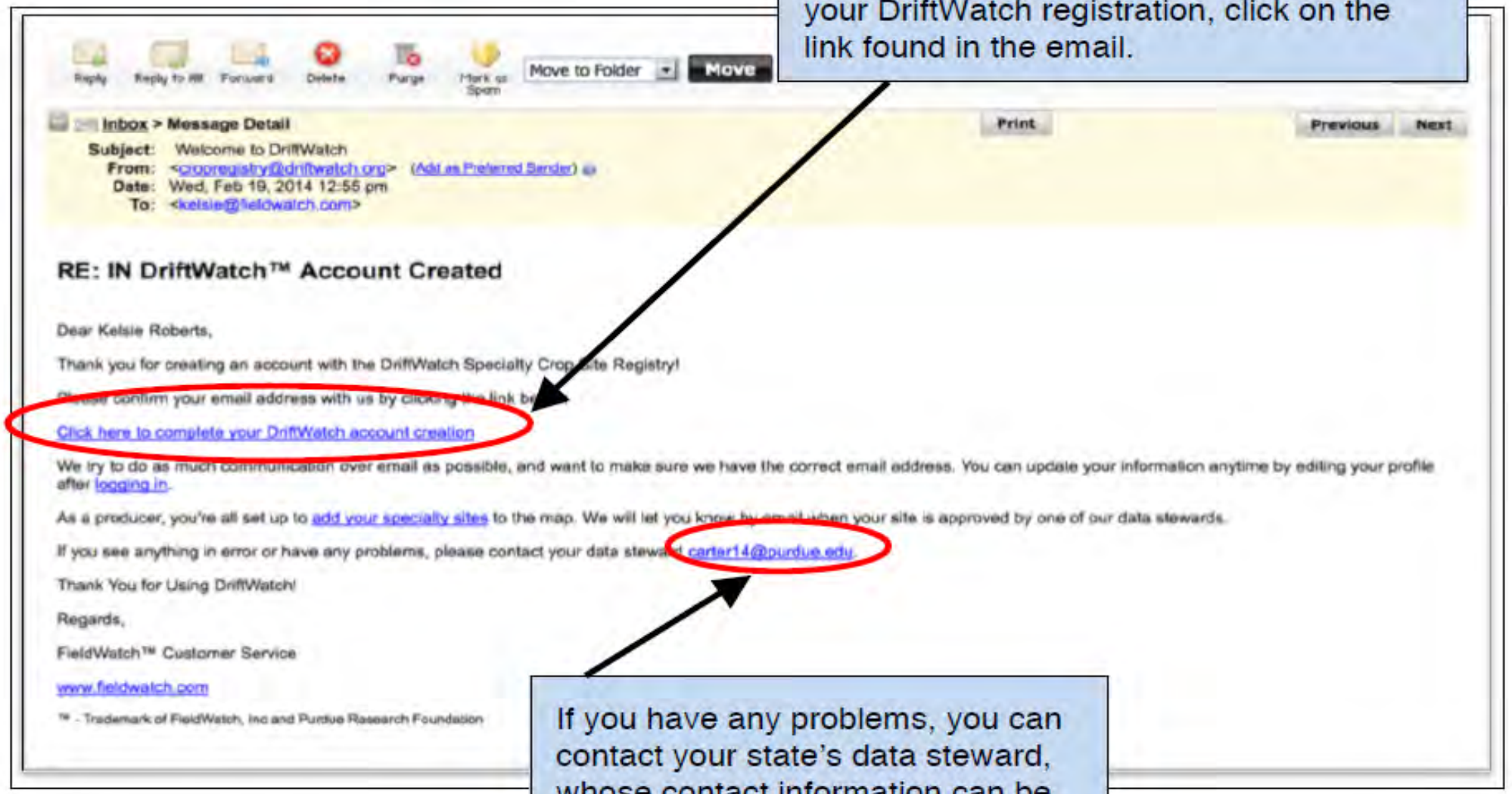
- Proactive approach to sensitive sites
- Notifications
- Better integrated pest management
- Helps to keep away from litigation

# HOW DO YOU SIGN UP?

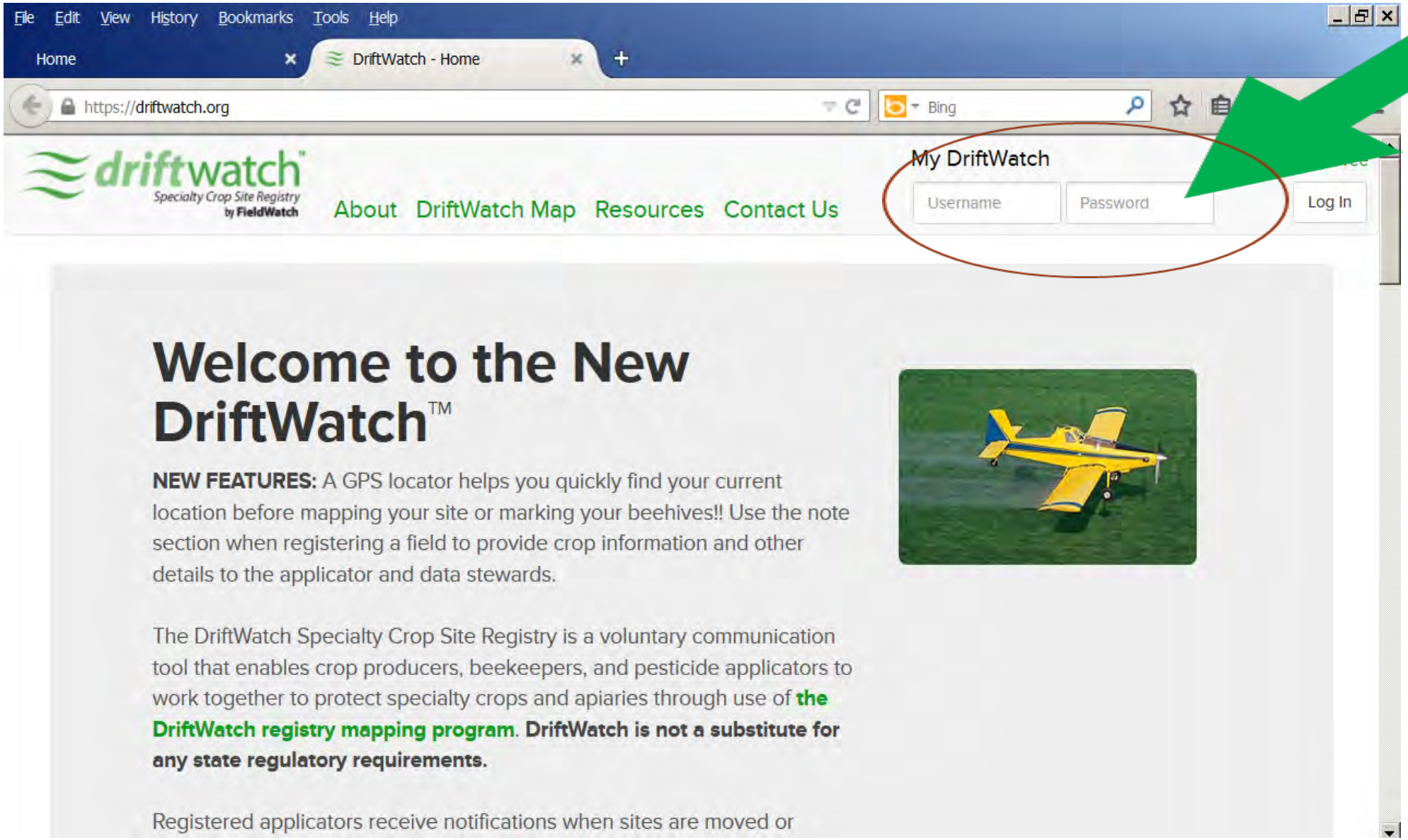



File Edit View History Bookmarks Tools Help
Home
DriftWatch - Home
https://driftwatch.org/signup
Bing
Signing up is fast, free, and simple.
Username Must be at least 6 characters. It's OK to use your email address as your username.
Username
Email Address
Email Address
Password Must be at least 8 characters, case-sensitive
Password
Re-type Password
Re-type Password
I am registering as a ...
Producer
Beekeeper
Applicator
Sign Up
Already have a DriftWatch Account?
Username
Username
Password
Forgot your username or password?
Password
Log In

To confirm your email address as part of your DriftWatch registration, click on the link found in the email.



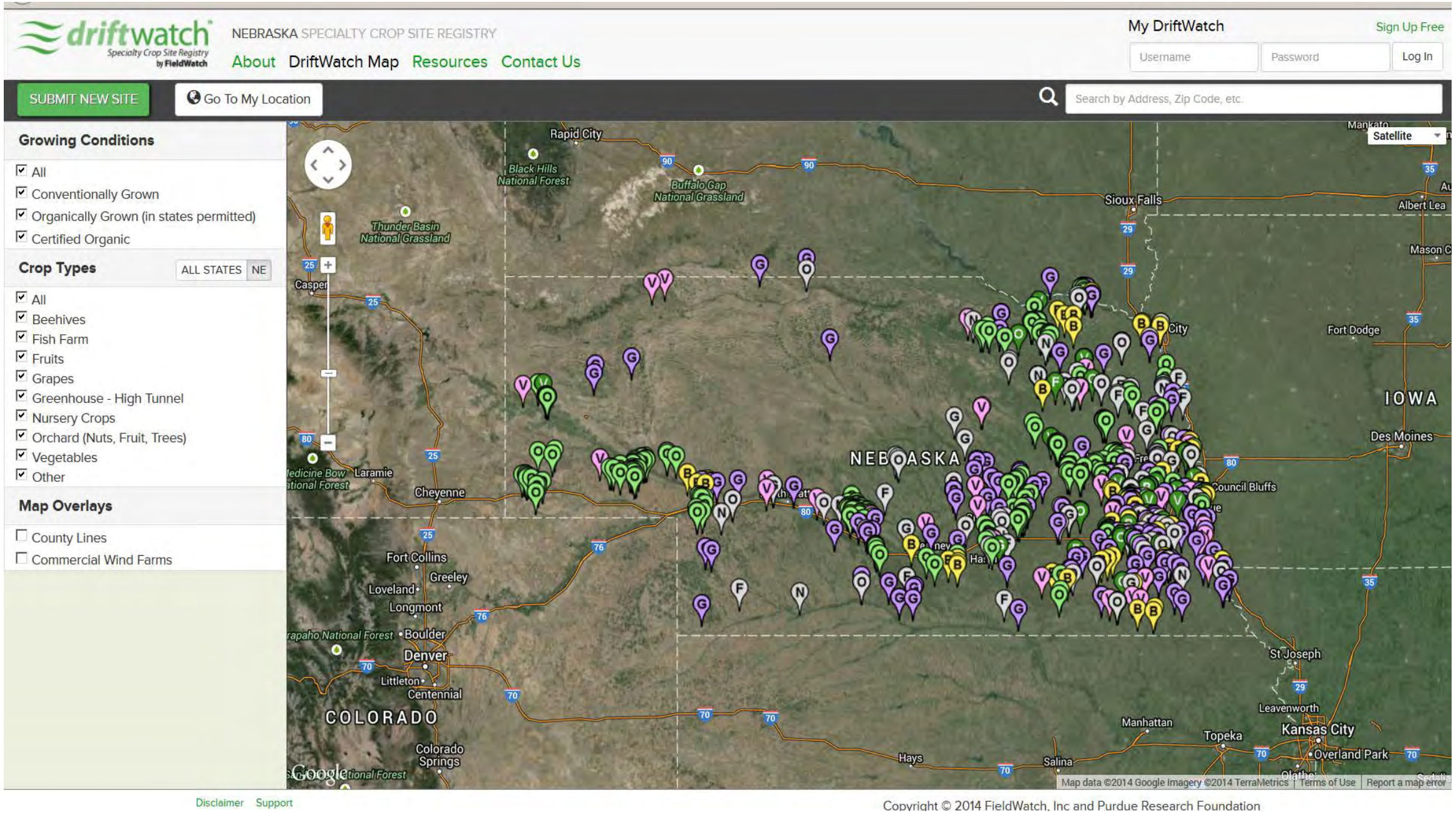

If you have any problems, you can contact your state's data steward, whose contact information can be found here (or via the DriftWatch website).


File Edit View History Bookmarks Tools Help
Home
DriftWatch - Home
https://driftwatch.org
Bing
driftwatch
Specialty Crop Site Registry
by FieldWatch
About
DriftWatch Map
Resources
Contact Us
My DriftWatch
Username
Password
Log In
Welcome to the New DriftWatch™
NEW FEATURES: A GPS locator helps you quickly find your current location before mapping your site or marking your beehives!! Use the note section when registering a field to provide crop information and other details to the applicator and data stewards.
The DriftWatch Specialty Crop Site Registry 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 the DriftWatch registry mapping program. DriftWatch is not a substitute for any state regulatory requirements.
Registered applicators receive notifications when sites are moved or

# MAINTENANCE

- Always available for making changes

- Annual renewal- Only as good as the contact information
  - Renew 2016 to 2017 In progress
  - Renew with changes
  - Renew without changes


driftwatch
Specialty Crop Site Registry by FieldWatch
NEBRASKA SPECIALTY CROP SITE REGISTRY
About
DriftWatch Map
Resources
Contact Us
My DriftWatch
Sign Up Free
Username
Password
Log In
SUBMIT NEW SITE
Go To My Location
Search by Address, Zip Code, etc.
Growing Conditions
All
Conventionally Grown
Organically Grown (in states permitted)
Certified Organic
Crop Types
ALL STATES
NE
All
Beehives
Fish Farm
Fruits
Grapes
Greenhouse - High Tunnel
Nursery Crops
Orchard (Nuts, Fruit, Trees)
Vegetables
Other
Map Overlays
County Lines
Commercial Wind Farms
Satellite
Rapid City
Black Hills National Forest
Buffalo Gap National Grassland
Thunder Basin National Grassland
Sioux Falls
Albert Lea
Mason C
Fort Dodge
IOWA
Des Moines
Council Bluffs
NEBRASKA
Casper
Laramie
Cheyenne
Fort Collins
Greeley
Loveland
Longmont
Boulder
Denver
Littleton
Centennial
COLORADO
Colorado Springs
Hays
Salina
Manhattan
Topeka
Kansas City
Overland Park
St Joseph
Leavenworth
Google
Map data ©2014 Google Imagery ©2014 TerraMetrics
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Disclaimer
Support
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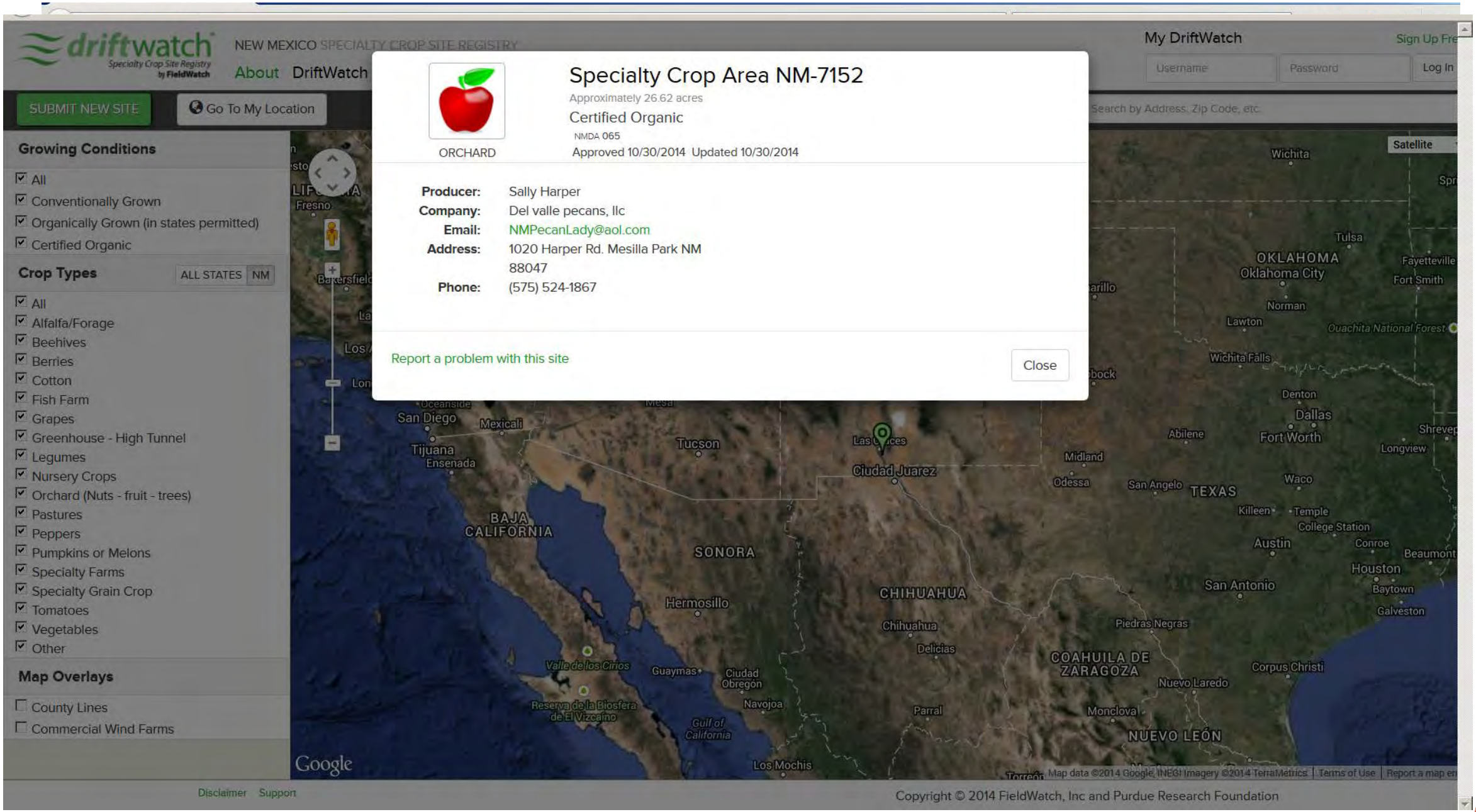
driftwatch
Specialty Crop Site Registry
by FieldWatch
NEW MEXICO SPECIALTY CROP SITE REGISTRY
About DriftWatch
My DriftWatch
Sign Up Fre
Username
Password
Log In
SUBMIT NEW SITE
Go To My Location
Search by Address, Zip Code, etc.
Growing Conditions
All
Conventionally Grown
Organically Grown (in states permitted)
Certified Organic
Crop Types
ALL STATES
NM
All
Alfalfa/Forage
Beehives
Berries
Cotton
Fish Farm
Grapes
Greenhouse - High Tunnel
Legumes
Nursery Crops
Orchard (Nuts - fruit - trees)
Pastures
Peppers
Pumpkins or Melons
Specialty Farms
Specialty Grain Crop
Tomatoes
Vegetables
Other
Map Overlays
County Lines
Commercial Wind Farms
ORCHARD
Specialty Crop Area NM-7152
Approximately 26.62 acres
Certified Organic
NMDA 065
Approved 10/30/2014 Updated 10/30/2014
Producer: Sally Harper
Company: Del valle pecans, llc
Email: NMPecanLady@aol.com
Address: 1020 Harper Rd. Mesilla Park NM 88047
Phone: (575) 524-1867
Report a problem with this site
Close
Satellite
Wichita
Tulsa
OKLAHOMA
Oklahoma City
Fayetteville
Fort Smith
Norman
Lawton
Ouachita National Forest
Wichita Falls
Denton
Dallas
Fort Worth
Abilene
Midland
Odessa
San Angelo
TEXAS
Waco
Killeen
Temple
College Station
Austin
Conroe
Beaumont
Houston
Baytown
Galveston
San Antonio
Fresno
San Diego
Mexicali
Tijuana
Ensenada
Tucson
Ciudad Juarez
BAJA CALIFORNIA
SONORA
CHIHUAHUA
Hermosillo
Chihuahua
Delicias
Piedras Negras
COAHUILA DE ZARAGOZA
Nuevo Laredo
Corpus Christi
Monclova
NUEVO LEÓN
Parral
Guaymas
Ciudad Obregón
Navojoa
Valle de los Cirios
Reserva de la Biosfera de El Vizcaino
Gulf of California
Los Mochis
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Support
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# Pollinators

- Colony Collapse Disorder - 2005-2006
- Beekeeper complaints – label language enforcement
- Oregon bee kill 2013
- EPA release new Pollinator Protection language required on neonicotinoid pesticides on August 15, 2013.

# Pollinator Protection

- New Language requirements for all Neonicotinoid Insecticides
  - Clothianidin, Dinotefuran, Imidacloprid, and Thiamethoxam
- Bee Advisory Box
- Specific Language to be included in Directions for Use
- EPA will be extending labeling requirements to all insecticides acutely toxic to bees

- NMDA working to determine our interpretations for the language
- Working with New Mexico Beekeepers Association as well

# THE NEW EPA BEE ADVISORY BOX

*On EPA's new and strengthened pesticide label to protect pollinators*

## PROTECTION OF POLLINATORS

**APPLICATION RESTRICTIONS** EXIST FOR THIS PRODUCT BECAUSE OF RISK TO BEES AND OTHER INSECT POLLINATORS. FOLLOW APPLICATION RESTRICTIONS FOUND IN THE DIRECTIONS FOR USE TO PROTECT POLLINATORS.

Look for the bee hazard icon  in the Directions for Use for each application site for specific use restrictions and instructions to protect bees and other insect pollinators.

**This product can kill bees and other insect pollinators.**

Bees and other insect pollinators will forage on plants when they flower, shed pollen, or produce nectar.

Bees and other insect pollinators can be exposed to this pesticide from:

- Direct contact during foliar applications, or contact with residues on plant surfaces after foliar applications
- Ingestion of residues in nectar and pollen when the pesticide is applied as a seed treatment, soil, tree injection, as well as foliar applications.

When Using This Product Take Steps To:

- Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site.
- Minimize drift of this product on to beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives can result in bee kills.

Information on protecting bees and other insect pollinators may be found at the Pesticide Environmental Stewardship website at:
http://pesticidestewardship.org/pollinatorprotection/Pages/default.aspx

Pesticide incidents (for example, bee kills) should immediately be reported to the state/tribal lead agency. For contact information for your state/tribe, go to: www.aapco.org. Pesticide incidents can also be reported to the National Pesticide Information Center at: www.npic.orst.edu or directly to EPA at: beekill@epa.gov

**Alerts users to separate restrictions on the label. These prohibit certain pesticide use when bees are present.**

**The new bee icon helps signal the pesticide's potential hazard to bees.**

**Makes clear that pesticide products can kill bees and pollinators.**

**Bees are often present and foraging when plants and trees flower. EPA's new label makes it clear that pesticides cannot be applied until all petals have fallen.**

**Warns users that direct contact and ingestion could harm pollinators. EPA is working with beekeepers, growers, pesticide companies, and others to advance pesticide management practices.**

**Highlights the importance of avoiding drift. Sometimes, wind can cause pesticides to drift to new areas and can cause bee kills.**

**The science says that there are many causes for a decline in pollinator health, including pesticide exposure. EPA's new label will help protect pollinators.**

EPA

**Read EPA's new and strengthened label requirements: http://go.usa.gov/jHH4**

# Directions for Use Statements

- **FOR CROPS UNDER CONTRACTED POLLINATION SERVICES**
- **FOR FOOD CROPS AND COMMERCIALLY GROWN ORNAMENTALS NOT UNDER CONTRACT FOR POLLINATION SERVICES BUT ARE ATTRACTIVE TO POLLINATORS**
- **NON-AGRICULTURAL PRODUCTS**

# Pollinator Plans

- Early 2014: EPA discussed expanding pollinator protection language on all classes of pesticides acutely toxic to bees

- June 2014: Presidential Directive
  - Secretary of Agriculture and Administrator of EPA to Develop the Pollinator Health Task Force
  - Develop a National Pollinator Health Strategy
    - Research
    - Education
    - Partnerships - Public and Private
  - Increase and Improve Pollinator Habitat

# Pollinator Plans

- Regulatory Concept for "State Managed Pollinator Protection Plans"

- Label language – One size can't fit all
- Designed to facilitate communication between grower, beekeepers and applicator
- Will apply to "pollinators", but focus of plan protections will be on "managed" bees (commercial – hobbyist)

# Pollinator Plans

- Stakeholder involvement in development
- Plans may be unique to states –
  - Best approaches to mitigate harm to pollinators depending on site
  - May be crop specific or more general
  - May have advisory AND enforceable elements
  - Extension of the label
- Prior notification of beekeepers to protect hives when applications to sensitive sites are necessary (application sites in bloom)
- Communication/notification:
  - Beekeepers to register sites to allow communication (DriftWatch or existing state Apiary programs may facilitate)
  - Failure to register apiary sites to allow communication may not afford protections

# THANK YOU

**New Mexico Department of Agriculture**

**Pesticide Compliance**
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**Las Cruces, NM 88005**

**505-362-1392**

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**sbaca@nmda.nmsu.edu**

NMDA
New Mexico Department of Agriculture