NCDA & CS Pesticides Section

Vineyard Workshop

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Structural Pest Control & Pesticides Division
Pesticides Section





Topics

NCDA&CS Pesticides Update

Pesticide Drift

 Things to consider when using late season applications of oxidizers at harvest

Website www.ncagr.gov/SPCAP

Pesticide Section Highlights

March 9th Pesticide Board Meeting <u>Conference Call</u> Agenda

Auxin Resources - June 2020 Dicamba Updates

New Paraguat Requirements

2018 Pesticide Report

Winter 2019 Pesticide Update

How to Protect Your Beehives from Mosquito Spraying Following a Hurricane

Driftwatch

Pollinator Protection

New Record Keeping Requirements & Form

Licensing Exams & Schools

Soil Fumigation Information

Soil Furnigant Management Plan Templates

- EPA Fumigant Management Templates
- NCDA Fumigation Field Summary

Grain Furnigant Management Plan Template using Phosphine Gas

Pesticides Section

Mission Statement

To protect the public health, safety and welfare, and to promote continued environmental quality by minimizing and managing risks associated with the legal use of pesticides through administration and enforcement of the N.C. Pesticide Law of 1971 and pursuant regulations adopted by the N.C. Pesticide Board.

ATTENTION: To help limit the spread of COVID-19 in our community, public access to the Ballentine Building and Annex is being restricted starting March 13th. If you have any questions, please contact us at 919-733-3556.

Available now!
ONLINE PESTICIDE EXAMS

Click for details

Limited in-person exams available

Click here for exam information

New guidelines for hosting pesticide continuing education courses

Online Credit Options Available!

Frequently Visited Section Links:

Your Pesticide License Renewal - Payments

Mosquito Control - Frequently Asked License Questions

Browse Section

Division Home Page

Pesticides Section Home

Pesticide Registration

Licensing & Certification

Compliance Monitoring & Field Operations

Pesticide Disposal Assistance Program

PETF

WPS

Environmental Programs

Español

Links

Site Map

Training Calendar

Contact

NC Pesticide Board Contact Information

Structural Section



Online Exams

Available now! ONLINE PESTICIDE EXAMS

Click for details

Limited in-person exams available

Click here for exam information

Online Exams

- Available 24/7 on your computer
 - No mobile devices, iPads, etc.
- Exam scores available instantly
 - Exam score validity will be pending proctor review of the exam session
- Fees
 - Fees are paid online with credit card
 - NCDA&CS exam fees will remain the same
 - \$50 Core, \$20 categories, \$10 private applicator, etc.
 - Additional \$23 service charge per exam

Requirements

- Good internet connection
 - Exam program will check that internet speed is fast enough before the exam beings
 - Internet speed required: 1 Mbps Upload, 2 Mbps Download
- Webcam and Microphone
 - Video and sound is recorded during your exam session and reviewed by a proctor
- Private Setting
 - 360° scan of the room with your webcam required to show that you are alone in the room
- Google Chrome web browser
- Government issued photo ID

Field Staff

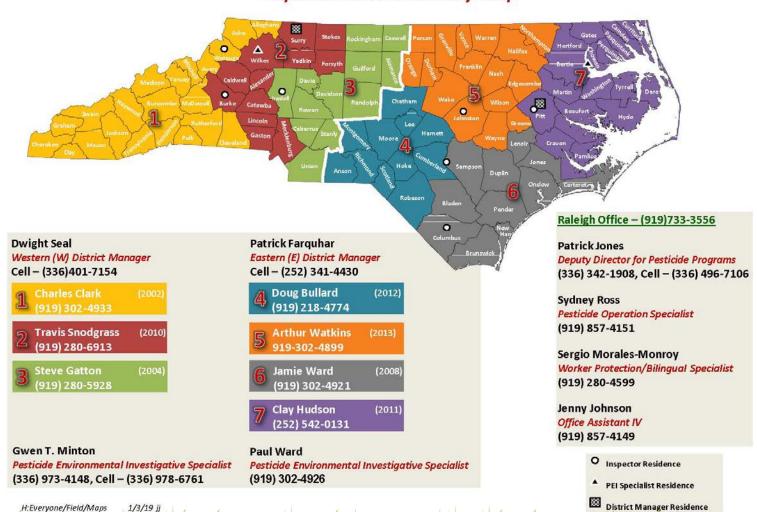
NORTH CAROLINA DEPARTMENT OF AGRICULTURE & CONSUMER SERVICES

Structural Pest Control and Pesticides Division

PESTICIDES SECTION

Compliance Monitoring and Field Operations Unit

Inspector Level II Territory Map



Field Staff

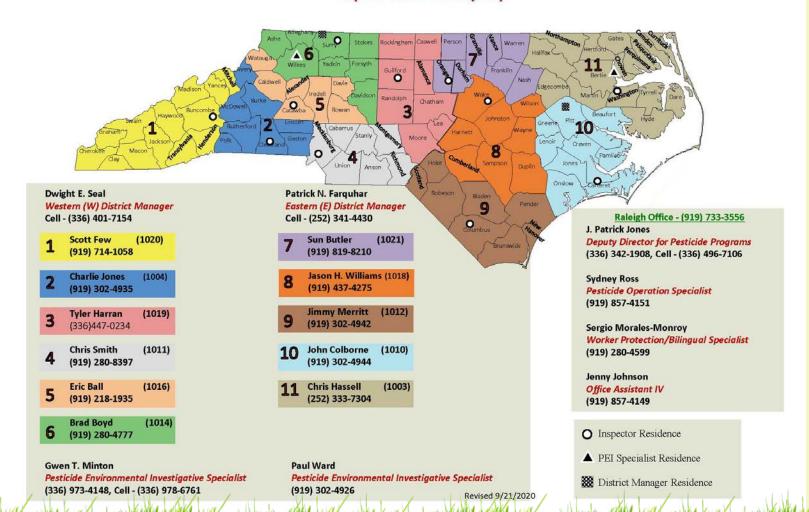
NORTH CAROLINA DEPARTMENT OF AGRICULTURE & CONSUMER SERVICES

Structural Pest Control and Pesticides Division

PESTICIDES SECTION

Compliance Monitoring & Field Operations Unit

Inspector Level I Territory Map



Paraquat New in 2020 EPA has mandated changes to the label

- Certification/Supervision
- Additional Training
- Supplemental Warning Materials
- Closed System (New in 2021)



- Only Certified Applicators can handle & apply
 - Cannot spray under someone else's license
 - Handling= mixing, loading, disposing, etc.

RESTRICTED USE PESTICIDE

DUE TO ACUTE TOXICITY

FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS ONLY— NOT

TO BE USED BY UNCERTIFIED PERSONS WORKING UNDER THE SUPERVISION

OF A CERTIFIED APPLICATOR.



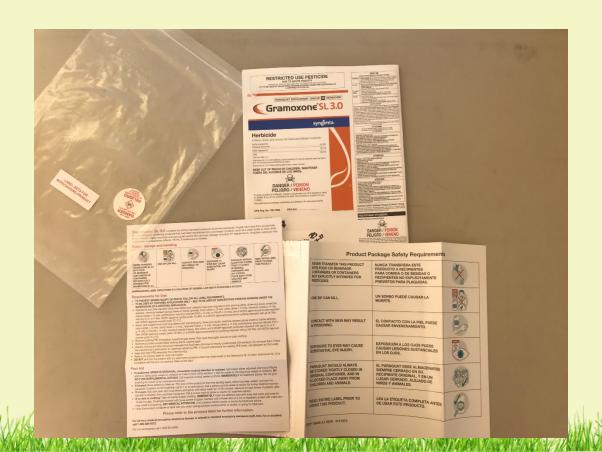
- Required training before Handling or Applying
 - Required every <u>Three</u> years
 - Must keep a record of training

CERTIFIED APPLICATOR TRAINING

Applicators must complete an EPA-approved paraquat training listed on the following website https://www.epa.gov/pesticide-worker-safety/paraquat-dichloride-training-certified-applicators. The training must be completed a minimum of every three years.



Supplemental Warning Materials (English & Spanish)





Paraquat

"How to Safely Use and Handle Paraquat-Containing Pesticides"

www.usparaquattraining.com



Closed system for smaller containers

For containers less than 120 gallons

This product must only be removed from the original container with a closed transfer system.





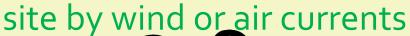


Drift

02 NCAC 09L .1404 DRIFT CONTROL

No person shall apply a pesticide(s) under such conditions that drift from pesticide(s) particles or vapors results in adverse effect.

Drift is pesticide movement away from the application





Drift is NOT

Runoff from a rain event

Intentional application to damage a crop (Vandalism)

Herbicide carryover in the soil

Herbicide damage from contaminated mulch, soil,

compost, or vegetation





Commonly Use Herbicides

Soybeans & Cotton (Glyphosate, Paraquat, Dicamba, 2,4-d, etc.)

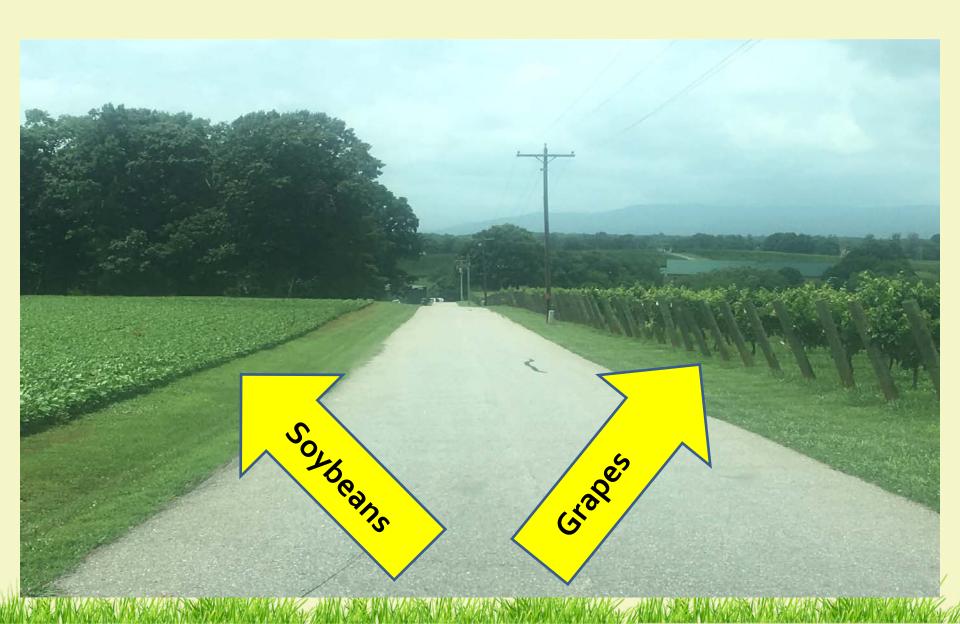
Corn (Glyphosate, Paraquat, Dicamba, Atrazine, etc.)

Pastures (Dicamba, 2,4-d, Aminopyralid, etc.)

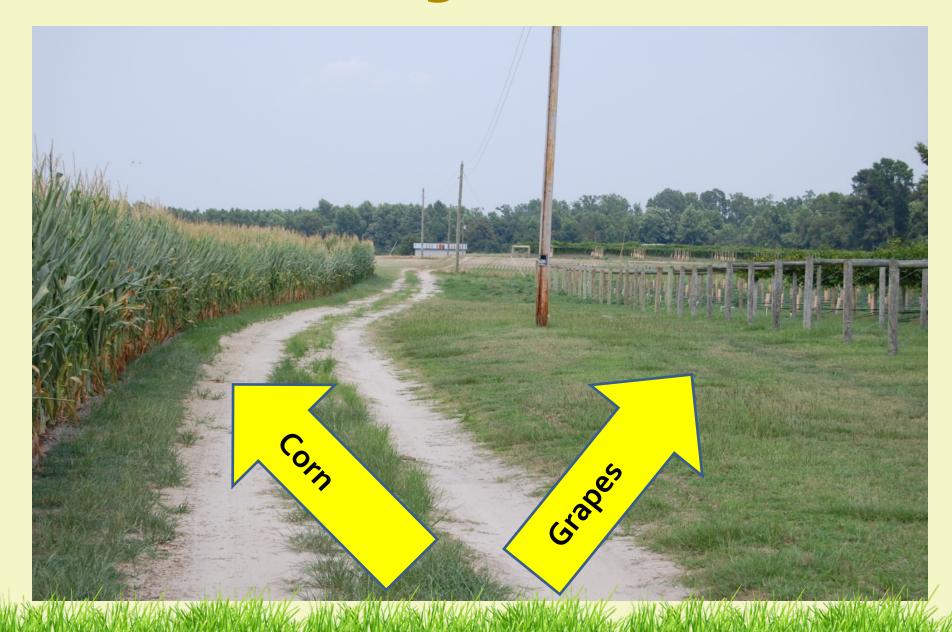
Right of Way (Glyphosate, Imazapyr, Aminopyralid, etc.)

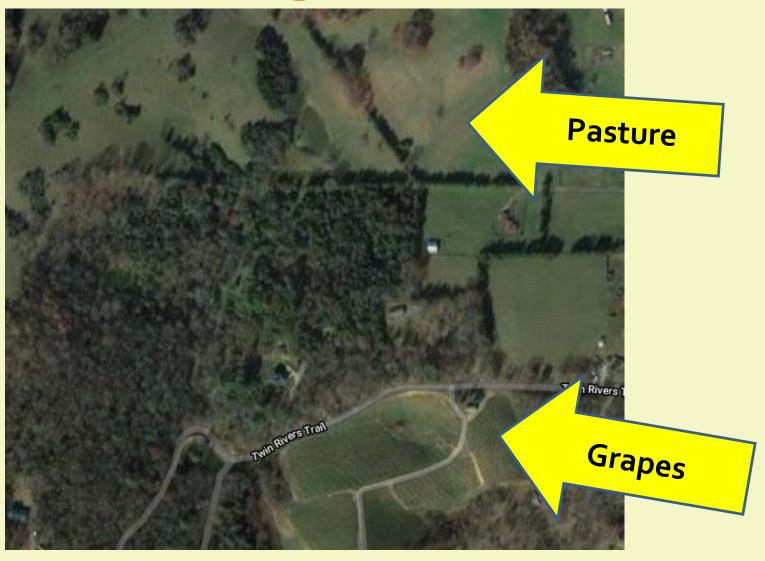
Forestry (Triclopyr, Glyphosate, Picloram, Imazapyr, etc.)

Home Lawns/Landscapes (Dicamba, 2,4-d, Glyphosate, Diguat, etc.)













Curling



Yellowing



Spotting



Combination of symptoms



Concerned about neighbors spraying?

- Take pictures and/or videos
- Document all relevant information (Date, Time, Location, Wind speed/direction, Temperature, etc.)
- Contact NCDA&CS' Pesticide Section
 - Initiate an Investigation
- Get your spray records in order

If you contact the NCDA&CS' Pesticide Section

- We will fully investigate the incident(s)
- We will contact the applicator/neighbor and others in the area
- We will look at what <u>you</u> have sprayed
- We will NOT make any 'on-site' quick determinations
- You will NOT hear the outcome until the case has been closed

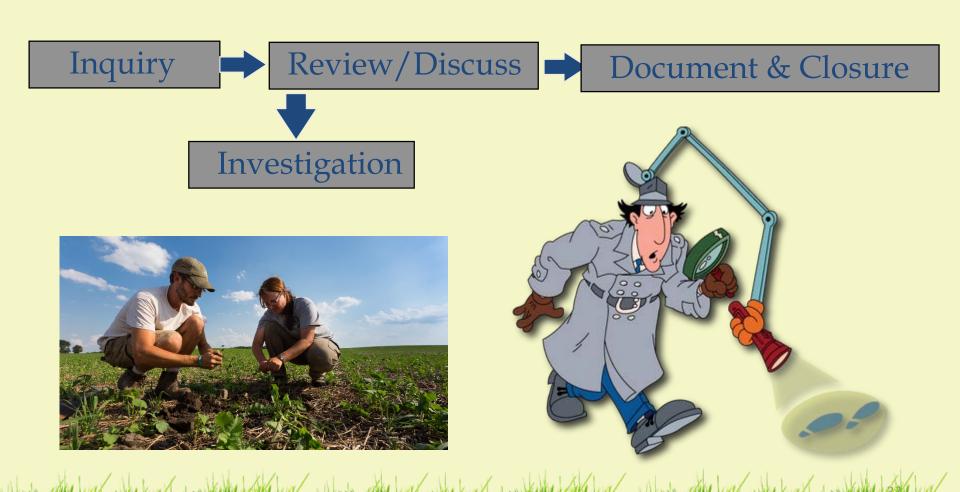
Investigation Process



What are some other options?

- Contact the neighbor/applicator
 - Discuss the situation
 - Work out an agreement
- Contact any involved parties
 - Discuss solutions
- Contact Cooperative Extension Agent/Specialist
 - Look at other possible issues
- Contact NCDA&CS' Pesticide Section
 - Ask for a Citizens Inquiry

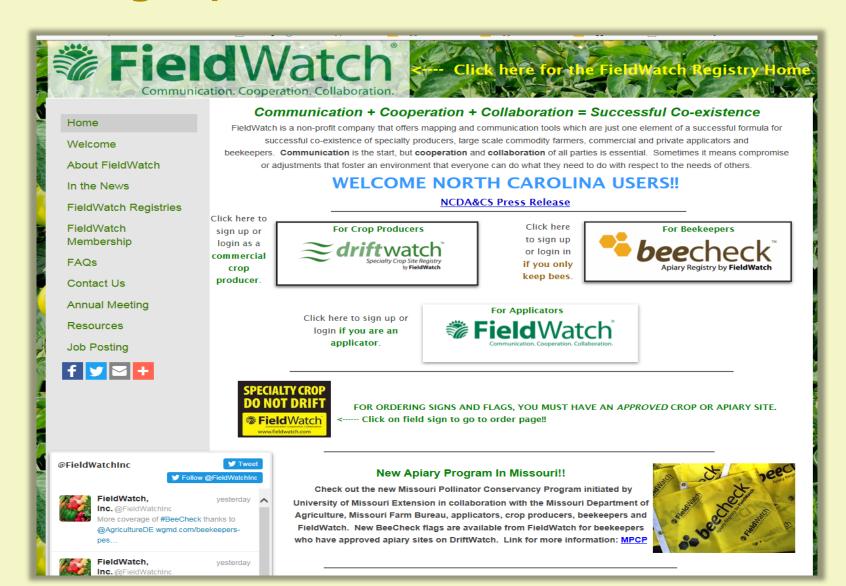
Citizen's Inquiry Process



Possible outcomes from an Investigation

- Document no drift/violation occurred
- Applicator may receive a warning, fine, loss of license, etc.
- Settlement agreements may include "will not apply certain products near grapes"
- You will NOT receive money from any monetary penalty/fine associated with a case approved by the Pesticide Board (Civil Court is an option)

Signup to Fieldwatch/Driftwatch



Oxidizers in the Vineyard

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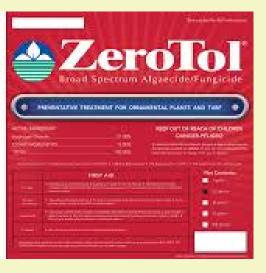
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Oxidizers in the Vineyard

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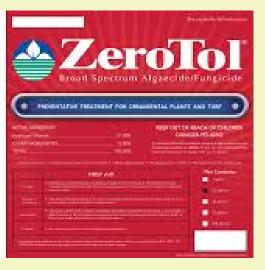
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Bi@Safe Systems...

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Only for Sanitizing Equipment

Oxidizers in the Vineyard

- Relatively inexpensive & effective
- Zero Hour REI (only needs to be dry for entry)
- No PHI (including day of harvest)
- OMRI Certified
- Little to no residue

Label

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FOR AGRICULTURAL USE

EPA REGISTRATION NO. 70299-12

ACTIVE INGREDIENTS:

Hydrogen Peroxide	27.1%
Peroxyacetic Acid	2.0%
OTHER INGREDIENTS:	70.9%
TOTAL:	100.0%

DANGER – PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

The Label is the Law

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This product can only be used in accordance with the Directions For



The Label is the Law

PHYSICAL AND CHEMICAL HAZARDS

Corrosive. Strong oxidizing agent. Do not use in undiluted form. Mix only with water in accordance with label instructions. Never bring undiluted product in contact with other pesticides, cleaners or oxidative agents.

The Label is the Law

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. Do not apply directly to treated, finished drinking water reservoirs or drinking water receptacles when the water is intended for human consumption. This product is highly toxic to bees and other beneficial insects exposed to direct contact on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. Do not apply this product or allow it to drift to crops where beneficials are part of an Integrated Pest Management strategy. This pesticide is toxic to birds who eat treated seed exposed on soil surface. Treated seed exposed on soil surface may be hazardous to birds, wildlife, fish and aquatic invertebrates. Cover or collect seeds spilled during loading.

WPS Applies for the use of an Oxidizer

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE), notification to workers, and Restricted-Entry Interval (REI). The requirements in this box only apply to the uses of this product that are covered by the Worker Protection Standard.

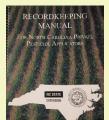
WPS for Workers

- All workers including paid harvesters MUST be trained according to WPS Standards PERC Pesticide Educational Resources Collaboration
 - www.pesticideresources.org
- Spray Records & SDS MUST be kept
 - Posted for 30 days and kept for 2 years
- Safety Poster MUST be Displayed
 - With nearest medical facility info
 - More than 11 employees may require more posters





Soap, Water, & Towels









Worker Entry

For field applications:

Keep unprotected persons out of treated areas until sprays have dried.



WPS Handler Requirements

Handlers who may be exposed to the undiluted product through mixing, loading, application, or other tasks must wear: coveralls over longsleeved shirt and long pants, rubber gloves, chemical resistant footwear plus socks, and protective eyewear (goggles or face shield). Handlers who may be exposed to the dilute through application or other tasks must wear: long-sleeved shirt and long pants, and shoes plus socks.

Required PPE













Eye protection requirements under WPS

- Eye-flush supplies:
 - System capable of delivering gently running water at 0.4 gal/min for at least 15 minutes OR
 - At least 6 gallons of water in containers suitable for providing a gentle eye-flush for about 15 minutes
- One system per mix/load site (not based on number of handlers)
- One pint of water per handler in portable containers that are immediately available to handler



Additional Handler Requirements

- 3 Gallons of Water
- EPA Approved Handler Training
- AEZ



- Provided with Personal Protective Equipment (PPE)
- Trained in the use of equipment
- Access to and understand the pesticide labels
- Minimum Age (18 years old)

Travis Snodgrass

Pesticide Inspector II

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NC Dept. of Agriculture & Consumer Services Structural Pest Control & Pesticides Division Pesticides Section

http://www.ncagr.gov/SPCAP/