



# Pesticide Report for 2021

North Carolina Department of Agriculture and Consumer Services  
Steve Troxler, Commissioner



# Table of Contents

Foreword .....	3
How to Use This Report.....	4
Introduction .....	5
Brief of the North Carolina Pesticide Law of 1971 and Adopted Regulations .....	6
Pesticide Board and Pesticide Advisory Committee.....	8
Pesticide Environmental Trust Fund .....	11
Pesticide Container Recycling and Disposal Assistance Programs .....	15
Definitions Adopted .....	19
Table I-Manufacturers Found to Have Unregistered or Misbranded Products in the Marketplace during 2018.....	20
Summary of Regulatory Activities Performed .....	22

# Foreword

This will acknowledge and express our appreciation to the following people who made significant contributions to the contents and preparation of this Pesticide Report: **Structural Pest Control & Pesticides Division / Pesticide Section** – James W. Burnette, Jr., *Director*; Betty H. Griffin, Effie Carroll, Rhonda O’Neal, Trez Downz, Jennifer Grady, *Processing Assistant III’s*; Jennifer Johnson, *Office Assistant IV*; Lisa Huntsinger, *Processing Assistant IV’s*; Tinesha McNeil, *Administrative Specialist I*; Jamie Frye, *Administrative Secretary II*; , Jordan Hearn, *Information Processing Technician*; Jacinth McAllister, *Information Processing Manager*; Jennifer Johnston, *Administrative Officer I*; Karen Hunt, *Administrative Officer II*; J. Patrick Jones, *Deputy Pesticide Administrator*; L. Lee Davis, *Registration Manager*; John Feagans, *Licensing, Certification & Outreach Manager*; John Allran, *Risk Assessment and Environmental Fate Team Manager*; Renee Woody, *Environmental Programs Manager*; Derrick Bell, *Pesticide Disposal Assistance Program Manager*; Sergio Morales-Monroy, *Bilingual Pesticide Specialist*; Paul Ward and Gwen T. Minton, *Pesticide Environmental Investigative Specialists*; Sydney Ross, *Pesticide Operations Specialist*; Guido Hommelsheim, *Pesticide Registration Specialist*; Henry F Weaver, Chelsea Ricks; *Certification Specialist*; N. Patrick Farquhar, and Dwight E. Seal, *District Managers*; Charles L. Clark, Steven F. Gatton, Travis Snodgrass, Arthur Watkins, Jamie Ward, Clay Hudson, and Doug Bullard, *Pesticide Inspector II’s*; Sydney Ross, Jimmy S. Merritt, Charlie Jones, Eric Ball, John Colborne, Chris Smith, Chris Hassell, and William Brad Boyd, Sun Butler *Pesticide Inspector I’s*; **Food and Drug Protection Division** –Anita MacMullen, *Director*; Reagan Converse, *State Chemist*; Dr. W. Grace Thompson, *Chief Microbiologist*; Dawn Davis and Vaishali M. Hingoo *Microbiologists*; Robert Hobson, *Organic Laboratory Supervisor*; Patrick Andrews, *Chemist II*;Rusty Ross, *Chemist I*; Josh Shepard, *LAN Administrator*.

# How to Use This Report

The N.C. Pesticide Board is mandated by the General Statutes of North Carolina (§ 143-437) to make annual reports to the Governor on matters involving pesticides. The *North Carolina Pesticide Report for 2020* fulfills this mandate. Considerable time and effort have gone into editing and organizing this 2020 edition which summarizes regulatory activities performed under the N.C. Pesticide Law of 1971. In this document you will find the following:

## Introduction

The Introduction describes the development of laws and regulations governing the sale and use of pesticides in North Carolina. It also refers to certain divisions in the North Carolina Department of Agriculture & Consumer Services that perform key roles in regulating and controlling the sale and use of pesticides in this State.

## North Carolina Pesticide Law of 1971 and Adopted Regulations

This section presents a brief abstract of the North Carolina Pesticide Law of 1971. It also indicates where to obtain a complete copy of the Law and the pursuant Regulations adopted by the North Carolina Pesticide Board.

## Pesticide Board

This section presents a brief description of the duties and composition of the North Carolina Pesticide Board. In addition, a brief summary of each North Carolina Pesticide Board meeting held during 2020 is given.

## Pesticide Environmental Trust Fund

In this section, a summary of the Pesticide Environmental Trust Fund's financial transactions for 2020 is presented. Balances, receipts, expenditures, refunds, cumulative (1993-2020) figures and project summaries are given.

## Pesticide Container Recycling and Disposal Assistance Programs

This section summarizes the amount of plastic pesticide containers recycled during 2020 and the amount of pesticides waste collected at both the designated disposal collection sites and permanent household hazardous waste collection sites across North Carolina during the same year.

## Definitions Adopted

This section explains definitions that were adopted for reporting the analytical results of pesticides sampled by pesticide inspectors and analyzed by the Department's laboratories.

## Table I

Table I is an alphabetical listing of the names and addresses of manufacturers and/or distributors that were found to have unregistered or misbranded products in the marketplace during 2020.

## Summary of Regulatory Activities Performed

This section presents a summary of the various regulatory activities performed by the Department under the North Carolina Pesticide Law of 1971. The following information is included: number of manufacturers who registered pesticides for sale; number of pesticide products registered; number of physical samples collected and examined; number of stop-sale, stop-use, or removal orders issued; the number of licenses and private applicator certificates issued; and the number of compliance inspections conducted.

# Introduction

The term "Pesticide" covers a large number of materials and mixtures intended for destroying, controlling, or repelling pests such as insects, weeds, and other noxious plants, predatory animals and birds, soil-infesting pests such as nematodes, algae, snails, and bacteria. Other examples are disinfectants, antiseptics, and fungicides for use other than on living man or other animals, defoliants, various repellents, fly paper, and other adhesive products whose action goes beyond simple mechanics, moth proofers, wood preservatives other than common paints, mildew controls, and seed fumigants.

An adequate and readily available supply of many of these products is essential in the economical production of feed and fiber crops. The preservation of many products in storage and the control of domestic and industrial pests which affect both the health and welfare of human beings and animals are like-wise dependent on such materials.

While the development and distribution of various pesticides to serve the needs are important, provisions must be present to protect the public. During the years 1947 through 1971, it was the purpose of the economic poisons law (North Carolina Insecticide, Fungicide, and Rodenticide Act of 1947, G.S. 4A, Chapter 106) to protect the public from adulterated, misbranded, worthless, and dangerous products, and legitimate manufacturers from unscrupulous competition.

During the years 1953 through 1971, the aerial application of pesticides was regulated by the North Carolina Aerial Crop Dusting Law, G.S. 4B, Chapter 106. The Law and the regulations promulgated thereunder, in summary, required the registration and licensing of contractors and aviators who engaged in the custom application of pesticides by aircraft in North Carolina. The validity of a license was further restricted to the period of time that coverage by liability bond or insurance for damage by aircraft was in force.

During 1969, the North Carolina General Assembly through House Resolution 1392 directed the Legislative Research Commission to study the laws regulating pesticides in N.C. and report its findings and recommendations to the 1971 General Assembly. As a result of the findings and recommendations of the Commission, the North Carolina Pesticide Law of 1971 was adopted. The N.C. Pesticide Law of 1971 established the North Carolina Pesticide Board as the governing body for the programs of pesticide management and control set forth in the Law. Provisions for regulating the use, application (aerial and ground), sale, storage, disposal and registration of pesticides are set forth in the Law.

The Law provides for the adoption of a list of restricted use pesticides and requires the licensing of all pesticide dealers who sell restricted use pesticides directly to users. Pesticide applicators and consultants are also subject to licensing requirements. Private pesticide applicators are required to be certified or recertified in order to purchase, use, and supervise use of restricted use pesticides in agricultural commodity production.

The Commissioner of Agriculture is responsible for administering and enforcing the Law and all rules and regulations adopted by the Board.

Each brand or grade of pesticide must be registered with the North Carolina Department of Agriculture & Consumer Services before it can be legally offered for sale in the State. A \$150.00 registration fee for each brand or grade must accompany each application for registration. In addition to the registration fee, an annual environmental assessment must be paid for each brand or grade to be registered in North Carolina. The assessment shall be \$50.00 if the applicant's gross sales of the pesticide in this state for the preceding 12 months for the period ending September 30th were more than \$5,000.00 and \$25.00 if gross sales were less than \$5,000.00. This assessment must accompany the \$150.00 registration fee in order for the registration to be complete.

A statewide inspection service will be maintained to investigate incidents involving pesticide misuse and to implement programs to enhance compliance to the Law and regulations. In addition to product registration and applicator licensing programs, the Pesticide Section of the Structural Pest Control and Pesticides Division will implement programs as authorized by regulation pertaining to the quality of formulated pesticides, the storage, disposal, and use of pesticides. The Department will maintain analytical laboratories to conduct analysis of official samples obtained for regulatory purposes.

# Brief of the North Carolina Pesticide Law of 1971

North Carolina Pesticide Board

Governing Body

Commissioner of Agriculture

Administrative and Enforcement

North Carolina Pesticide Advisory Committee

Assists the Board and Commissioner in an advisory capacity

Any pesticide may be designated as a "Restricted Use Pesticide" upon the grounds that in the judgment of the Board it is so hazardous or injurious to persons, pollinating insects, animals, crops, wildlife, lands, or the environment that additional restrictions on its sale, purpose, use, or possession are required. Restricted Use Pesticides also include any pesticide required by the Environmental Protection Agency to bear the designation on its labeling "Restricted Use Pesticide." (Restricted Use Pesticides have been established by regulation.)

Restricted Use Pesticides

The Board may require certification and recertification of private pesticide applicators and charge a fee of up to \$10.00. The current fee is established by regulation at \$10 for a three-year certification.

Private Applicator Certification Requirement

All pesticide dealers who sell restricted use pesticides must be licensed. Application for a pesticide dealer's license must be accompanied by a nonrefundable fee of \$75. All licenses shall expire on December 31 of the year for which they are issued. The license may be renewed annually upon application to the Department of Agriculture and Consumer Services, accompanied by a non-refundable fee of \$75 for each license. Each applicant must demonstrate upon written, or written and oral, examination his knowledge of pesticides, their usefulness and their hazards; his competence as a pesticide dealer; and his knowledge of the laws and regulations governing the use and sale of pesticides.

Pesticide Dealer Licensing Requirement

No person shall engage in the business of pesticide applicator within North Carolina unless he is licensed annually by the Board. Each license application shall be accompanied by a nonrefundable fee of \$75 for each applicator's license and an additional \$25 for each aircraft to be licensed. A pesticide applicator is defined as any person who owns or operates a pesticide application business or who provides, for compensation, a service that includes the application of pesticides upon the lands or properties of another; any public operator; any golf course operator; any seed treater; any person engaged in demonstration or research pest control; and any other person who applies pesticides for compensation and is not exempt from this definition. It does not include:

Pesticide Applicator Licensing Requirement

- a. Any person who uses or supervises the use of a pesticide (i) only for the purpose of producing an agricultural commodity on property owned or rented by him or his employer, or (ii) only (if applied without compensation other than trading of personal services between producers of agricultural commodities) on the property of another person, or (iii) only for the purposes set forth in (i) and (ii) above.
- b. Any person who applies pesticides for structural pest control, as defined in the North Carolina Structural Pest Control Law (G.S. Chapter 106, Article 4C.)

Each applicant must demonstrate upon written, or written and oral, examination his competence as a pesticide applicator or public operator. In addition, to be licensed as a pilot, a person must have 125 hours and one year's flying experience as a pilot in the field of aerial pesticide application. No person shall perform services as a pest control consultant without first procuring from the Board a license. The application for a license shall be accompanied by an annual nonrefundable fee of \$75. A pest control consultant is defined as any person who, for a fee, offers or supplies technical advice, supervision, or aid, or recommends the use of specific pesticides for the purpose of controlling insects, plant diseases, weeds, and other pests, but does not include any person regulated by the North Carolina Structural Pest Control Act. Each applicant must demonstrate upon written, or written and oral, examination his competence as a pesticide consultant. An applicant for a pest control consultant license must possess a Ph.D., master's, or bachelor's degree in an agricultural or biological science from an accredited college or university with a minimum of 30 semester hours or 45 quarter hours of credit in subject areas pertinent to the category in which the applicant seeks to obtain a license. Emphasis of study must include insect, plant, bacterial, and fungal pests, as applicable to the category, and integrated pest management.

Pest Control Consultant Licensing Requirement

No person shall handle, transport, store, display, or distribute pesticides in such a

manner as to endanger man or his environment.

Every pesticide prior to being distributed, sold, or offered for sale within this State or delivered for transportation or transported in intrastate commerce or between points within this State through any point outside this State, shall be registered and such registration shall be renewed annually. Each manufacturer, distributor, or registrant of a pesticide shall supervise the activities of any employee or agent to prevent the making of deceptive or misleading statements about a pesticide. It shall be unlawful for any person to distribute, sell, or offer for sale any restricted use pesticide to any dealer who does not hold a valid N.C. Pesticide Dealer License.

Handling, Storage,  
and Disposal of  
Pesticides

Registration

A registration fee of \$150 for each brand or grade of pesticide is required. An additional \$200 delinquent registration penalty shall be assessed against the registrant for each brand or grade of pesticide marketed in North Carolina prior to registration.

Registration Fee  
and Delinquent  
Penalty

An annual Pesticide Environmental Trust Fund assessment fee is required for each brand or grade of pesticide registered. This fee is either \$25.00 or \$50.00, based on gross sales of the pesticide within the State for the previous year. The assessments provide funding for agromedicine efforts at East Carolina University, North Carolina State University, and North Carolina A&T University and for pesticide environmental programs administered by the N.C. Department of Agriculture & Consumer Services.

Pesticide  
Environmental Trust  
Fund Assessment

Registration is subject to refusal or cancellation for cause and upon hearing.

Refusal or Cancellation of  
Registration

Any brand or grade found to be deficient or excessive in active ingredients, misbranded, adulterated, or not registered is subject to "Stop Sale, Stop Use or Removal Orders."

"Stop Sale, Stop Use or  
Removal Orders"

The Pesticide Board may assess a civil penalty of not more than \$2,000 against any person who violates or directly causes a violation of any provision of this Article or any rule adopted pursuant to this Article. In determining the amount of any penalty, the Board may consider the degree and extent of harm caused by the violation and the cost of rectifying the damage caused by the violation.

Civil Penalties

Notwithstanding any other provision of this Law, the maximum penalty which may be assessed under this section against a "private pesticide applicator" is \$500 and such penalties may be assessed only for willful violations.

Other Penalties

Any person who shall be adjudged to have violated any provision of the Law, or any regulation of the Board adopted pursuant to this Law, shall be guilty of a Class 2 misdemeanor and for each violation shall be liable for a penalty of not less than \$100 or more than \$1,000 or shall be imprisoned for not more than 60 days, or both. In addition, if any person continues to violate or further violates any provision of this Article after written notice from the Board, the court may determine that each day during which the violation continued or is repeated constitutes a separate violation subject to the foregoing penalties.

**NOTE: Copies of the North Carolina Pesticide Law of 1971, as amended through 2009, may be obtained upon request to the Pesticide Section, North Carolina Department of Agriculture & Consumer Services, 1090 Mail Service Center, Raleigh, NC 27699-1090. Copies of the Regulations adopted by the North Carolina Pesticide Board may be requested from the same source. Both documents are also available on the Internet at**

**[www.ncagr.com/str-pest/pesticides](http://www.ncagr.com/str-pest/pesticides)**

# North Carolina Pesticide Board

The North Carolina Pesticide Board is a seven-member, governor appointed Board charged with the duty of governing pesticide management and control as set forth in the North Carolina Pesticide Law of 1971 §143-436. The members represent different sectors of the regulated public.

The Board adopts rules and regulations and makes policies for the program outlined in the North Carolina Pesticide Law of 1971. Board members serve staggered four-year terms. Appointments to fill vacancies in the Board are of individuals having the same credentials as the predecessor.

## Member of The North Carolina Pesticide Board, 2019

One member each representing the North Carolina Department of Agriculture and Consumer Services; the North Carolina Department of Environment and Natural Resources; and the State Health Director or his designee. The persons so selected may be either members of a policy board or departmental officials or employees.

**Dr. Colleen M. Hudak-Wise**, Director, Agronomic Services Division, N. C. Department of Agriculture and Consumer Services, 1040 Mail Service Center, Raleigh, NC 27699-1040 (Tel. 919/733-2655 office) colleen.hudak@ncagr.gov

\* **Dr. Ricky L. Langley**, Medical Epidemiologist, Occupational and Environmental Epidemiology Section, N. C. Department of Health and Human Services, 1912 Mail Service Center, Raleigh, NC 27699-1912 (Tel. 919/715-6428 office) rick.langley@ncmail.net

**Mr. Chris Johnson**, WSS Chemistry Laboratory, NC DEQ-DWR/Water Science Section, 1623 Mail Service Center, Raleigh, NC 27699-1601 (Tel. 919/733-3908) chris.johnson@ncdenr.gov

A representative of the agricultural chemical industry.

**Dr. Yasmin J. Cardoza**, 824 Nowell Ridge Rd., Raleigh, NC 27607 (Telephone: 919/559-3532) Yazmin\_cardoza@ncsu.edu

A person directly engaged in agricultural production.

**Mrs. Gwendolyn B. Pitt**, 193 Pitt Farm Lane, Macclesfield, NC, 27852 (Tel. 252/813-1056) designgbp@aol.com

Two at-large members, from other fields of endeavor, one of whom shall be a nongovernmental conservationist.

**Ms. Carmen Mercedes Hernandez-Pelletier**, 6030 Bacarra Lane, Apt. 106, Raleigh, NC, 27606, (Tel. 919/859-1187) benson.kirkman@att.net

\*\* **Dr. W. Benson Kirkman**, 3712 Eakley Court, Raleigh, NC 27606 (Tel. 919/859-1187 home) bkirkman@mindspring.com

\* Chairman

\*\* Vice Chairman

Secretary, James W. Burnette, Jr.

North Carolina Pesticide Board

1090 Mail Service Center, Raleigh, NC 27699-1090

# North Carolina Pesticide Board Meetings

## January 12, 2021

Meeting held via conference call due to COVID-19 restrictions.

Allyson Ballantyne, Plant Industry Division, presented the Board with an exemption request for an aerial application of pesticides for the treatment of Gypsy Moths. Ms. Ballantyne gave a brief overview of the N.C. Gypsy Moth Program and how treatment takes place in areas that Gypsy Moths have been found. The Board approved the request.

Ms. Renee Woody, SPC&PD, presented the Board with a funding request for a 2021 Plastic Pesticide Container Recycling Program in the amount of \$60,000.00. The Board approved the funding request.

Mr. John Feagans, SPC&PD, updated the Board on the new online testing option for the division.

Assistant Attorney General Chris McLennan presented proposed settlement agreements for the Board's consideration and approval.

## March 9, 2021

Meeting held via conference call due to COVID-19 restrictions.

Travis Birdsel, presented Scouting videos for Middle Management Workers at Christmas tree Farms.

Assistant Attorney General Tien Cheng presented proposed settlement agreements for the Board's consideration and approval.

Tien Cheng, Assistant Attorney, presented adoption emergency rule for pesticide approved in NC under FIFRA Section 18 Exemption for use in preventing, destroying, or mitigating COVID-19.

## May 11, 2021

Meeting held via conference call due to COVID-19 restrictions.

The Board consider rulemaking: Consider adoption of Temporary Rule 02 NCAC 09L .0502. LIST OF RESTRICTED USE PESTICIDES (b) as published in the NC Register, April 15, 2021: (b) Any pesticides approved by the United States Environmental Protection Agency for use in the State of North Carolina in accordance with 02 NCAC 09L .0318 that is labeled as approved for use in preventing, destroying, or mitigating COVID-19 shall be exempt from the provision of 02 NCAC 09L .0502 (a)(3) and shall not be considered a Restricted Use Pesticides.; and Consider initiating Rulemaking to adopt 02 NCAC 09L .0502 LIST OF RESTRICTED USE PESTICIDES (b) as permanent rule.

Assistant Attorney General Chris McLennan presented proposed settlement agreements for the Board's consideration and approval.

## June 15, 2021

Meeting held via conference call due to COVID-19 restrictions.

## November 15, 2021

Patrick Jones, Sydney Ross and Don Hopkins, NCDA&CS, Gabriella Garrison, NC Wildlife Resources, gave updated on the Pollinator Protections.

Dr. Marcia Herman-Giddens, Tick Bone Infections Council of NC, requested funding for \$3,000.00 to create a kit on "How to Remove Ticks", and gave a brief overview of the Council and their mission to

improve recognition, treatment, control and understanding of tick-borne diseases in NC. The Board approved the request.

Assistant Attorney General Chris McLennan presented proposed settlement agreements for the Board's consideration and approval.

# Pesticide Environmental Trust Fund

Throughout 2021, the North Carolina Department of Agriculture & Consumer Services (NCDA&CS) continued to fulfill the mandate of N.C. General Statutes §143-442 and §143-468 which specify the collection and disposition of environmental assessment fees that pesticide manufacturers and distributors pay when they register pesticide products for sale in North Carolina.

## RECEIPTS for 2021

NCDA&CS collected \$558,275.00 in environmental assessment fees from the registration of approximately 16,222 pesticide brands during 2021. The receipts were for products with reported annual North Carolina gross sales of less than \$5,000 was equal to 48.01%, and the receipts were for products with annual sales of \$5,000 or more was equal to 51.99%. (The annual environmental assessment/product is \$25 or \$50 per brand, respectively.)

## BALANCES for 2021

Initial receipts from pesticide registrants paying PETF assessments are deposited into the NCDA&CS Pesticide Environment Assessment Fund (PEAF, Account No. 6136). Transfers are made from Account No. 6136 according to North Carolina G.S. § 143-468(b) as follows: 25% to agromedicine and 75% to the Pesticide Environmental Trust Fund (PETF, Account No. 6137), the account which is used by NCDA&CS to sponsor the various pesticide environmental programs summarized in this report.

## EXPENDITURES FOR 2021

During 2021, NCDA&CS accrued a total of \$558,275.00 from pesticide product registration fees.

As specified in North Carolina G.S. § 143-468(b), PETF funds were distributed to North Carolina State University (NCSU), NC A&T State University and East Carolina University for operational expenses associated with administering and implementing a statewide agromedicine program; each university received 2.5% of the total PETF receipts collected during the calendar year. Twenty-percent of the total PETF receipts were used to support the agromedicine information specialist position in NCSU's Environmental & Molecular Toxicology Department. The aggregate amount of PETF funds spent on agromedicine during 2021 was \$153,652.51.

The NC Pesticide Board approved projects for DriftWatch/CropCheck; Production 2019 Auxin Recordkeeping Manuals; Enforcement Electronic Data Capture – MiForms to MiApps; Developing a Searchable Version of the Ag Chemicals Manual; Scouting Videos for Middle Management Workers at Christmas Tree Farms; 2019 WPS Respiratory Protection Support; and Bilingual Translation Position, awarding of a total of \$76,880.93.

Funds from the PETF totaling \$8,179.57 were awarded to support local recycling of plastic pesticide containers during 2021.

Funds from the PETF totaling \$172,273.00 were disbursed for pesticide disposal assistance during 2021.

## REFUNDS FOR 2021

There were no refunds for 2021.

### **CUMULATIVE PETF FIGURES (1993-2021)**

As of December 31, 2021, a total of \$11,905,432.00 in receipts has been collected since the inception of the PETF.

Since 1993, PETF has provided a total of \$3,451,002.51 for support of agromedicine in North Carolina.

Expenditures for pesticide environmental programs between 1995 and 2021 have totaled \$8,261,746.41\*.

\*does not include NCDA&CS Pesticide Disposal Assistance Program

# Summary of Recent Pesticide Environmental Trust Fund Projects for 2021

## **Field Testing of a Beehive Enclosure During Pesticide Application (\$21,311.00) [2020-2021]**

A project to field test potential effects on survival and colony strength of honeybees from a beehive enclosure used to prevent exposure of bees during pesticide application. The Grantee's project title is

## **WPS Respiratory Protection Support (\$25,000.00) [2019-2021]**

A project through the North Carolina Agromedicine Institute to assist agricultural establishments across the state comply with EPA Worker Protection Standard (WPS) mandates for respiratory protection by providing a 50/50 cost share for the purchase of respirators and/or cartridges through an NC Agromedicine Institute training events or by submitting paperwork for reimbursement of equipment purchased through another source.

## **Scouting Videos for Middle Management Workers at Christmas Tree Farms (\$13,900.00) [2019-2020]**

An educational and storage facility located at the Avery County Cooperative Extension Service office utilized for the demonstration of pesticide mixing and loading, and storage of unwanted pesticides until they may be disposed of by the NCDA&CS Pesticide Disposal Assistance Program.

## **Development of a Protocol for UAV Inspection of Potential Spray Drift Crop Damage (\$38,945.00) [2020-2022]**

NCSU project to assist the North Carolina Department of Agriculture and Consumer Services (NCDA&CS) Structural Pest Control & Pesticides Division in developing a protocol to utilize UAV technology to assess potential spray drift damage to crop fields and other areas. This will include evaluation and purchase of appropriate UAV platforms and sensors as well as provide training to Division staff in proper use and application of the technology and data collection procedures.

## **Tick Safety for Outdoor Workers, TSWO (\$3,000.00) [2021-2022]**

Chatham County Health Department and the Tick-borne Infections Council of North Carolina, Inc are partnering to conduct a pilot intervention to help keep outdoor workers safer from tick bites and tick-borne infections. This initiative will focus on agriculture and other outdoor workers including migrant workers in Chatham County and other nearby counties. Team leaders, field bosses, and first aid workers will be supplied with teaching materials, kits with materials for safe removal of biting ticks, and printed material about tick safety and symptoms of disease in Spanish for workers.

## **Temporary Bilingual Specialist I Position (\$25,480.00) [2018-2024]**

To meet the demands for bilingual translation needs across the North Carolina Department of Agriculture & Consumer Services, Structural Pest Control & Pesticides Division, a Temporary Bilingual Specialist I Position was created to translate licensing exams, worker protection standard information, brochures, and other outreach materials.

**2021 Version of the Auxin Herbicide Record-keeping Manual (\$1,955.93) [2021]**

EPA approved pesticide labels and North Carolina Supplemental 24(c) labels for the auxin technology dicamba herbicides; Xtendimax, Enlist Duo, Enlist One, and Engenia require applicators to keep very extensive, detailed records of their applications, over and above the requirements for all Restricted-Use Pesticides (RUP). The Auxin Herbicide Record-Keeping manual provides a simple, organized way for them to do so.

**DriftWatch – BeeCheck – CropCheck (\$7,500.00) [2021]**

DriftWatch - a web-based mapping tool created to promote communications between producers of specialty crops (high value crops) and pesticide applicators in support of ongoing stewardship activities. Designed to alert applicators where specialty crop fields and beehives are located before their applications of pesticides.

BeeCheck – a web-based mapping tool created for beekeepers (hobby, sideline, and commercial) to map apiaries, purchase signs, and flags.

CropCheck – a web-based mapping tool allowing growers of genetically modified crops to register their fields.

## **Pesticide Container Recycling Report for PETF in 2021**

Farmers and commercial applicators participated in the recycling of plastic pesticide containers by transporting their empties to collection sites that were established by county agencies. USAg Recycling, Inc., the ACRC approved recycler for North Carolina, reported that 550,912 pounds of plastic pesticide containers were recycled. Since 1995, over 10.5 million pounds of pesticide containers have been recycled, which was the first year that Pesticide Environmental Trust Fund grants were awarded to counties for pesticide container recycling programs. Seventy counties were participating in this recycling program during the year. The recycled plastic is sold by USAg Recycling, Inc. to companies that make industrial type products. North Carolina currently ranks 7<sup>th</sup> in the nation in pesticide container recycling.

Pesticide Environmental Trust Fund grants were awarded to Carteret and Randolph counties. The total funding awarded to these counties was \$8,179.57. The grant funds were used to purchase 40-foot cargo containers, treated posts, container repairs, signs, and pressure rinse nozzles.

Pesticide Inspector IIs visited 58 recycling sites across the state to check on the cleanliness of pesticide containers being stored for recycling and discussed any problems with individuals involved in the inspection of the containers and the education of farmers, commercial applicators, and collection site staff. They gave farmers jet rinse nozzles to aid in the rinsing of empty containers and calibration cups to improve the accuracy of the amount of pesticides applied with sprayers.

These grants have enabled counties to create and enhance pesticide container recycling programs for farmers and commercial applicators, which reduces the burden on landfills, protects human health and the environment by reducing the threat of improper rinsing and disposal, and ensures the user is in compliance with state regulations that prohibit open dumping, burning, and water dumping of pesticide containers.

# Pesticide Disposal Assistance Program

The North Carolina Pesticide Disposal Assistance Program, created by the North Carolina Department of Agriculture & Consumer Services, provides the public a legal, free-of-charge, environmentally acceptable mechanism to dispose of unwanted or unusable pesticides. The Pesticide Disposal Program is a public service stewardship program contained within the Structural Pest Control and Pesticides Division.

The Pesticide Disposal Assistance Program disposes of pesticides collected at designated single day disposal collection sites and at permanent household hazardous waste collection sites across the North Carolina. In 2021, the Pesticide Disposal Assistance Program supervised the collection and disposal of 210,304 pounds of pesticide waste at a total of 126 collection events. A total of 24 single day disposal events were organized by NCDA&CS with NC Cooperative Extension during 2021. NCDA&CS also assisted 100 counties in disposal of pesticides collected at permanent household hazardous waste (HHW) sites. A participant must notify the Pesticide Disposal Assistance Program prior to taking unwanted pesticides to a HHW site.

NORTH CAROLINA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES  
 STRUCTURAL PEST CONTROL AND PESTICIDE DIVISION

**\*\*\*PESTICIDE DISPOSAL ASSISTANCE PROGRAM (PDAP)\*\*\***

**PDAP NOTEABLE ITEMS FOR 2018**

**RECORD TOTAL 210K lbs** and 9-Yr Run STILL the 9 HIGHEST Annual Total  
 Lbs !

Budget restricts Sp21 yet creates RECORD 6-mo Fall 21 with Over 139K lbs !

**2021 ANNUAL TOTALS**

<u>SEASON</u>	<u># Collections</u>	<u># Containers*</u>	<u>Drum/MB</u>	<u>Pounds**</u>
<b>SPRING 2021 TOTAL</b>	47	860	20 / 5	71,076
<b>FALL 2021 TOTAL</b>	79	5,335	21 / 3	139,228
<b>2021 TOTAL</b>	126	6,195	41 / 8	<b>210,304</b>

\*number of containers are not tallied at HHW Collection Events  
 \*\*bulk liquid drum weights, as an average, are included in total pounds

**2021 PESTICIDE COLLECTIONS EVENTS**

**NCDA&CS - PDAP with COOPERATIVE EXTENSION  
SINGLE-DAY PESTICIDES ONLY EVENTS**

Avery Co Site  
 Bladen Co  
 Camden Co  
 Clay Co  
 Clayton Site  
 Cleveland Co Site  
 Duplin Co  
 Edgecombe Co  
 Franklin Co  
 Graham Co  
 Granville Oxford Site  
 Guilford Co Site

Haywood Co  
 Henderson Co  
 Hoke Co  
 Iredell Co  
 Jackson Co  
 Johnston Co  
 Lenoir Co Site  
 Martin Co  
 Montgomery Co  
 Perquimans Co  
 Rowan Co  
 Union Co

**NCDA&CS - PDAP ASSISTED  
HHW COLLECTION EVENTS**

Alamance Co HHW      Dare Co  
 HHW      Moore Co HHW

Alexander Co HHW	Forsyth Co HHW	New Hanover Co HHW
Ashe Co HHW	Gaston Co HHW	Onslow Co HHW
Avery Co HHW	Granville Co HHW	Randolph Co HHW
Brunswick Co HHW	Harnett Co HHW	Richmond Co HHW
Buncombe Co HHW	Henderson Co HHW	Stanly Co HHW
Cabarrus Co HHW	Hertford Co HHW	Surry Co HHW
Catawba Co HHW	Iredell Co HHW	Transylvania Co HHW
Cumberland Co HHW	Lee Co HHW	Watagua Co HHW
Currituck Co HHW	Madison Co HHW	

*MULTIPLES EVENTS AND VARIOUS OTHER COLLECTIONS NOT LISTED  
ABOVE ARE INCLUDED IN THE TOTAL POUNDS LISTED*

## Definitions Adopted

Table I lists manufacturers that had products placed under “Stop Sale Orders” due to the following:

**“UNREGISTERED”** - signifies that the product was not registered at the time it was found by a pesticide inspector in the marketplace. Any such product is required to be registered prior to release from a “Stop Sale Order.” A delinquent registration penalty is also assessed against the manufacturer.

**“MISBRANDED”** - indicates that the labeling of a pesticide product failed to conform to federal and/or state requirements.

**Table I-Manufacturers Found to Have Unregistered or Misbranded Products in the Marketplace During 2021**

Name and Address of Company	SAMPLES	
	Unregistered	Misbranded
2020 TGG Direct LLC		
Cherry Hill, NJ.....	1	-
AB7 AMERICA Inc.		
Weston, FL.....	2	-
Aero Chemical CO		
Atlanta, GA.....	1	-
Alliance Consumer Group		
Forth Worth, TX.....	7	-
Baystate Pool Supplies Inc.		
Cambridge, MA.....	1	-
Beekman International Inc.		
N/A.....	1	1
Blue Science Solutions LLC		
Orlando, FL.....	1	-
BNG Miracle Pet, LLC		
Dayton, OH.....	1	-
Bonide Products LLC		
Oriskany, NY.....	1	-
Delta Brands Inc.		
Larchmont, NY.....	1	-
Edwards Roberts, LLC		
Brooklyn, NY.....	1	1
Farnam Companies Inc,		
Schaumburg, IL.....	1	-
Gold River Feed Products		
Shelbyville, TN.....	1	-
Handstand		
Washington, DC.....	1	-
Harvards Chemical Research Inc.		
Atlanta, GA.....	1	-
Hero Pet Brands LLC		
Dallas, TX.....	3	-
Homs LLC		
Pittsboro, NC.....	1	-
Iman Holdings LLC		
N/A.....	1	1
Jacent Strategic Merchandising		
Huntington Valley, PA.....	1	1
Kumming Ansheng Industry & Trade CO LTD		
Kunming, China.....	-	1
Manna Pro Products LLC		
St Louis, MO.....	1	-
Maquiladora Miniara S.A.		
Teoloyucan, Huehuetoca.....	1	1
Melrose Holdings LLC		

**Table I-Manufacturers Found to Have Unregistered or Misbranded Products in the Marketplace During 2021**

Name and Address of Company	SAMPLES	
	Unregistered	Misbranded
Overland Parks, KS.....	2	-
National Chemical Laboratories Inc. Philadelphia, PA .....	1	-
Permatex Solon, OH .....	1	-
Protector Brands Cedar Rapids, IA .....	1	-
Purity Labs LLC Troutman, NC .....	1	1
Radienz Living LLC Spring city, TN.....	3	-
Regal Chemical Co Alpharetta, GA.....	1	-
Richards Homeware Portland, OR .....	1	-
Sakar International Edison, NJ.....	1	1
Skeeter Hawk Fierce Protection Fort Worth, TX .....	4	-
Skout's Honor Oceanside, CA .....	1	-
Solaris Group N/A.....	1	-
Stauffer Household Products Westport, CT.....	1	-
Synergy Labs Fort Lauderdale, FL .....	4	-
Trieu Technologies Bolingbrook, IL.....	3	-
Valent Bioscience LLC Libertyville, IL.....	1	1
Vic West Importers Austin, TX.....	1	-
Vivitar Edison, NJ.....	-	1
VM (Unilever) N/A.....	1	1
Voluntary Purchasing Group Bonham, TX.....	-	-
W.F. Young Inc. East Longmeadow, MA .....	2	2

**Summary of 2021  
Program Activities Performed  
Under the N. C. Pesticide Law of 1971**

**PESTICIDE REGISTRATIONS**

Total Number of Registrants .....	1,976
Registrants from North Carolina .....	155
Pesticide Products Registered .....	16,222
Section 24(c) Registrations .....	50
Section 18 Exemptions .....	1
Product Registration Checks .....	166

**COMPLIANCE MONITORING**

Inspections .....	6,935
Worker Protection .....	369
Investigations .....	99
Citizen's Inquiries .....	106
Physical Samples Submitted for Analyses	
Formulation .....	214
Investigation .....	188
Domestic Wells .....	36

**REGULATORY ACTIONS**

Stop-Sale, Stop Use, Removal Orders .....	76
License or Certification Suspensions .....	1
License Revocations .....	0
Civil Penalties .....	67
Notices of Noncompliance .....	402
Notices of Warning .....	17
Delinquent Registration Penalties .....	\$ 5,600.00

**COURSES APPROVED**

Number of courses.....	1,647
Number of credits issued .....	2970.05

**EXAMINATIONS**

Exams Administered.....	4,930
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**LICENSED APPLICATORS**

Pesticide Dealer Licenses .....	490
Ground Pesticide Applicator Licenses .....	9,212
Aerial Pesticide Applicator Licenses .....	158
Public Operator Licenses .....	4,532
Pest Control Consultant Licenses .....	93
Total Pesticide Licenses .....	14,485

**CERTIFIED APPLICATORS**

Private Pesticide Applicators .....	10,506
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**PESTICIDE ENVIRONMENTAL TRUST FUND**

Active Projects .....	7
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Deposits .....	\$ 558,275.00
Disbursements .....	\$ 402,806.44
Agromedicine Program.....	153,652.51
Pesticide Disposal Assistance Program .....	172,273.00
Container Recycling Program .....	60,000.00
Other Environmental Projects .....	76,880.93

**PLASTIC PESTICIDE CONTAINER RECYCLING**

Number of Counties with active programs .....	70
Total weight collected .....	550,912

**PESTICIDE DISPOSAL ASSISTANCE PROGRAM**

Containers .....	6,195
Drums .....	41
Pounds .....	210,304
Collection Events .....	126

**OUTREACH**

Fairs and/or Trade Shows .....	5
Presentations at Recertification Classes .....	263