



Pesticide Report for 2014

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



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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, Felicia Pate, and Martha Booth, Processing Assistant III's; Torrey Vest, Office Assistant IV; Latega Powell and Laura L. Stover, Processing Assistant IV's; Jamie Frye, Administrative Secretary II; Jan L. Culbreth, Information Processing Technician; Tamora Hester and Jennifer Johnston, Information Processing Manager; Kimberly Mayes, Administrative Officer II; J. Patrick Jones, Deputy Pesticide Administrator; L. Lee Davis, Registration Manager; Renee Woody, Licensing, Certification & Outreach Manager; John Allran, Risk Assessment and Environmental Fate Team Manager; Dr. Henry F. Wade, Environmental Programs Manager; Derrick Bell, Pesticide Disposal Assistance Program Manager; Sergio Morales-Monroy, Bilingual Pesticide Specialist; Michael A. Mitchell and Gwen T. Minton, Pesticide Environmental Investigative Specialists; Jennifer Almond and Jason H. Williams, Pesticide Operations Specialist; Greggan Huff and Guido Hommelsheim, Pesticide Registration Specialists; J. Cam McDonald, Jr. and John E. Feagans, Certification Specialists; N. Patrick Farquhar, and Dwight E. Seal, District Managers; Charles L. Clark, Steven F. Gatton, Thomas C. Bowman, Jr., W. Barry Dunn, Jamie Ward, and Paul H. Ward, III, Pesticide Inspector II's; Douglas Bullard, Jimmy S. Merritt, Eddie Nunn, Bruce Nicely, Travis Snodgrass, Charlie Jones, Chris Smith, John Colborne, Page Eppel, R. Steve Taylor, Chris Hassell, Hollie Anne Brinkley and William Brad Boyd, Pesticide Inspector I's; Food and Drug Protection Division – Daniel L. Ragan, Director; Dr. Roger L. McDaniel, State Chemist; Dr. W. Mark Cosby, Chief Microbiologist; Dawn Davis and Vaishali M. Hingoo Microbiologists; Ronald R. Willett Pesticide Laboratory Supervisor; Tim Bollinger and Patrick Andrews, Chemist II; R. Vern Park, Greg Hare, and Stacy McArthur, Chemist I; David Mitchell, 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 2014 fulfills this mandate. Considerable time and effort have gone into editing and organizing this 2014 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 and Pesticide Advisory Committee

This section presents a brief description of the duties and composition of the North Carolina Pesticide Board and the North Carolina Pesticide Advisory Committee. In addition, a brief summary of each North Carolina Pesticide Board meeting and Pesticide Advisory Committee meeting held during 2014 is given.

Pesticide Environmental Trust Fund

In this section, a summary of the Pesticide Environmental Trust Fund's financial transactions for 2014 is presented. Balances, receipts, expenditures, refunds, cumulative figures (1993-2014) and project summaries are given.

Pesticide Container Recycling and Disposal Assistance Programs

This section summarizes the amount of plastic pesticide containers recycled during 2014 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 gives the analytical results of pesticides sampled and analyzed for their formulations. Company name and address are those listed on the product label when it was purchased in the marketplace.

Table II

Table II presents the results of disinfectants tested for their label guarantee to kill various microorganisms. Here again, company name and address are those listed on the product label when it was purchased in the marketplace.

Table III

Table III 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 2014.

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, defoliant, 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.

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.

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.

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

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."

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.

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.

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.

Handling, Storage,
and Disposal of
Pesticides

Registration

Registration Fee
and Delinquent
Penalty

Pesticide
Environmental
Trust Fund
Assessment

Refusal or Cancellation of
Registration

"Stop Sale, Stop Use
or Removal Orders"

Civil
Penalties

Other
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

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.

MEMBERS OF THE NORTH CAROLINA PESTICIDE BOARD, 2014

One member each representing the North Carolina Department of Agriculture & 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. Mitch Gillespie, N.C. Dept. of Environment and Natural Resources,
1601 Mail Service Center, Raleigh, NC 27699-1601
(Tel. 919/707-8619) mitch.gillespie@ncdenr.gov

One representative of the agricultural chemical industry:

** **Dr. Thomas Allen Scarborough**, 7905 Farnham Ct., Raleigh, NC 27616
(Telephone: 919/676-4113 work) allen.scarborough@bayercropscience.com

One person directly engaged in agricultural production:

Mr. William "Shawn" Harding, 762 Harding Lane, Chocowinity, NC 27817
(Tel. 252/946-9349 home) info@southsidefarms.com

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

Mr. Don F. Rogers, 2040 Dove Lane, Clayton, NC 27527
(Tel. 919/359-1004 home) neuseriverinspect@embarqmail.com

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 14, 2014

Mr. James Burnette, SPC&PD, presented for discussion the requirements upon state agencies under G. S. 150B-21.3A: Periodic Review and Expiration of Existing Rules. Mr. Burnette advised the Board that the SPC&PD was notified that the Division's rules have been moved back one year for review. Mr. Burnette further stated that the Division is required to complete the process of categorizing all rules, publishing for public comment, and responding to all public comments by August 1, 2018, in order for the rules to be taken up by the Rules Review Committee in September 2018. Mr. Burnette addressed Board member questions regarding the number of rules that will be effected and the options available for categorizing the rules. Mr. Burnette also provided information regarding steps involved in completing the rule review task.

Dr. Langley, Chairman N.C. Pesticide Board, asked about the status of the Pesticide Environmental Trust Fund (PETF). Mr. Burnette stated that since the registration season for pesticide products is underway, the fund is starting to replenish.

Dr. Langley asked if someone could make a presentation to the Board on bee colony collapse and Dr. Scarborough, N.C. Pesticide Board, stated that he would be glad to help with that.

Assistant Attorney General Barry Bloch presented settlement agreements for the Board's consideration and approval.

March 11, 2014

Assistant Attorney General Barry Bloch presented settlement agreements for the Board's consideration and approval.

Ms. Renee Woody, SPC&PD, presented to the Board an update on the Pesticide Environmental Trust Fund (PETF). After discussion on several of the PETF programs, Dr. Scarborough, N.C. Pesticide Board, asked if it would be possible to have Robin Tutor provide the Board with an update of her project at the May meeting.

Dr. Henry F. Wade, SPC&PD presented to the Board a request for funding from the Pesticide Environmental Trust Fund (PETF). The request was for the Plastic Pesticide Container Program for 2014. The program provides grants to eligible local governments who wish to establish a new pesticide container recycling program, enhance an existing one, or restart an inactive one. The Board approved Dr. Wade's request for \$60,000.00 from PETF to fund the program for 2014.

Dr. Ian Kelly, Bayer Crop Science; Mr. Don Hopkins, Plant Industry, NCDA&CS; and Mr. John Allran, SPC&PD, provided presentations to the Board on Honeybees and Colony Collapse Disorder and EPA's new neonicotinoid labeling requirements to protect pollinators.

May 13, 2014

Ms. Robin Tutor, NC Agromedicine, presented to the Board a brief overview and update for two projects funded by PETF – *Online Training of HealthCare Providers on Pesticide Related Illness and Health Issues Course*; and *Risk Mitigation Measures Cost Share*.

Mr. Chris White of Red River Distribution appeared before the Board to request a change to the pest control consultant licensing/education requirements. Mr. White asked the Board to consider an education exemption in order to obtain a consultant license in NC. Mr. Burnette, SPC&PD, explained to the Board the process that would be involved if they were to consider the request. After discussion, the Board asked the Division to provide, at the next Board meeting, clarification of the rules and to show what other states are doing in this type of situation.

Mr. Patrick Jones, SPC&PD, presented to the Board proposed revisions to EPA's Worker Protection Standard.

The Board discussed reaffirming their previous declaration of moles as pests. Mr. Burnette, SPC&PD, gave a brief background on the portion of the Pesticide Law concerning moles; and also added that N.C. is the only state that does not register pesticides labeled for moles. After discussion, the Board reaffirmed their previous declaration.

Assistant Attorney General Barry Bloch presented settlement agreements for the Board's consideration and approval.

James Burnette, SPC&PD, informed the Board that the department is hoping that the General Assembly will pursue an amendment to the Pesticide Law giving the Board the authority to adopt the classification for applicators. Also, Mr. Burnette stated that the Department hopes that the Board can adopt a rule to allow the soil fumigant training be done by the Division and not have to go through the EPA training every three years.

June 19, 2014

The Board considered a summary for suspension on the following products, WePak Mint Disinfectant, and WePak Disinfectant Neutral Cleaner. Both products are registered under EPA Reg. Number 010324-00157-00039272. Due to current test results and WePak's past history, Barry Bloch, Assistant Attorney General, proposed that the registration for these products be suspended until WePak can produce a safe product. Mr. Bloch also stated that grounds exist, under the N.C. Pesticide Law of 1971, to revoke or suspend all three products registered under this EPA Reg. Number: WePak Mint Disinfectant, WePak Disinfectant Neutral Cleaner, and Wepak Lemon Disinfectant. The board approved Mr. Bloch's recommendation and authorized Mr. Bloch to proceed with the Summary Suspension Order.

North Carolina Pesticide Board Meetings (cont.)

September 9, 2014

The Board received final reports from Ms. Robin Tutor-Marcom, Director, NC Agromedicine Institute, on two Pesticide Environmental Trust Fund (PETF) projects – *Online Training of Health Care Providers on Pesticide Related Illness and Health Issues Course* and *Risk Mitigation Measures Cost Share*.

Dr. Jill Sidebottom, NCSU, presented to the Board a presentation on Christmas Trees and Bees.

James Burnette, SPC&PD, gave an update on recent legislation on moles. The proposed legislation includes declaring any species of mole other than the star nose mole, pests in North Carolina and allowing pesticides that are registered in N.C., and labeled for control of moles to be used. The Board moved to continue with the rule making process and instructed staff to review the appropriate pesticide labels to see if they currently contain language adequate to provide the protections which would be called for under the Board's proposed rules.

Ms. Renee Woody, SPC&PD, presented the Board with the draft proposal for adopting a Soil and Growing Media Fumigation certification/licensing subclass for Commercial and Private Pesticide Applicators. The 2014 amendment to the North Carolina Pesticide Law of 1971 provides authority to the Board to classify private pesticide applicator certifications for the first time. The Board recommended some clarifications and approved moving forward on the proposal.

Mr. James Burnette and Ms. Renee Woody, both with NCDA&CS, continued the discussion with the Board regarding the education requirements for a Consultant. The Board moved not to go forward on the request to change the education requirements for a Consultant License.

Assistant Attorney General Barry Bloch presented settlement agreements for the Board's consideration and approval.

November 12, 2014

Dr. Henry Wade, NCDA&CS, presented the 2013 John L. Smith Plastic Pesticide Container Recycling Awards. These awards recognize counties that have taken the initiative to establish an outstanding plastic pesticide container recycling program for farmers and licensed pesticide applicators. Mr. Steven Edge and Ms. Kristina Locklear-Cummings, Solid Waste Management, accepted the first place award on behalf of Robeson County, and Mr. Al Cochran, Cooperative Extension Service, accepted the second place award on behalf of Martin County. These awards were made possible by a grant from the Pesticide Environmental Trust Fund.

Mr. Patrick Jones, SPC&PD, gave the Board an update on Pollinator Protection. After Mr. Jones' update, there was a brief discussion on changes being made by the Environmental Protection Agency (EPA) for the protection of pollinators.

Mr. John Allran, SPC&PD, provided follow up information to the Board regarding the labeling of mole products. After a brief discussion the Board inquired on the steps involved in the process of the rule changes.

Assistant Attorney General Barry Bloch presented settlement agreements for the Board's consideration and approval.

The North Carolina Pesticide Advisory Committee

The North Carolina Pesticide Law of 1971 §143-436 establishes a twenty-member Pesticide Advisory Committee to advise the N.C. Pesticide Board on technical questions and on the development of rules and regulations. Members of the Advisory Committee represent different sectors of the regulated public. Members of the Committee serve at the pleasure of the Board.

MEMBERS OF THE N.C. PESTICIDE ADVISORY COMMITTEE, 2014

Three practicing farmers

***Mr. Dan McConnell**, 475 Old Dana Road, Hendersonville, NC 28792 (Tel. 828/692-2819)

***Mr. Marshall W. Grant**, Route 1, Box 66, Garysburg, NC 27831 (Tel. 919/537-5111 home) dg0@charter.net

***Mr. Darryl K. Corriher**, 1475 Corriher Springs Road, China Grove, NC 28023 (Tel. 704/857-6557 home) dbcorriher@ctc.net

One conservationist (at large)

***Mr. John Paul Lilly**, 312 Hampton Drive, Plymouth, NC 27962 (Tel. 252/793-2088 home) jpl@mchsi.com

One ecologist (at large)

****Dr. Johnny Randall**, Assistant Director for Conservation, NC Botanical Garden, CB 3375, UNC-CH, Chapel Hill, NC 27599 (Tel. 919/962-0522) jrandall@email.unc.edu

One representative of the pesticide industry

***Dr. Stewart Sherrick**, 4774 River Farm Road, Rocky Mount, NC 27803 (Tel. 252/442-8374) stewart.l.sherrick@monsanto.com

One representative of agri-business (at large)

****Mr. William M. McLawhorn**, PO Box 370, Cove City, NC 28523 (Tel. 252/514-2416 home) bmclawhorn@ncsiag.com

One local health director

****Mr. Phillip E. Tarte**, MHA, Union County Health Dept., 1224 W. Roosevelt Blvd., Monroe, NC 28110 (Tel. 704/296-4801 office) phillptarte@co.union.nc.us

Three members of the North Carolina State University (NCSU) College of Agriculture & Life Sciences, at least one of which shall be from the area of wildlife or biology

***Dr. Clyde E. Sorenson**, Associate Professor, Dept. of Entomology, NCSU, Box 7630, Raleigh, NC 27695-7630 (Tel. 919/515-8427 office) clyde_sorenson@ncsu.edu

***Dr. Rick Brandenburg**, Professor & Extension Entomology, Dept. of Entomology, NCSU, Box 7613, Raleigh, NC 27695-7613 (Tel. 919/515-8876 office) rick_brandenburg@ncsu.edu

***Dr. David Jordan**, Peanut Specialist, Dept. of Crop Science, NCSU, Box 7620, Raleigh, NC 27695-7620 (Tel. 919/515-4068 office) david_jordan@ncsu.edu

One member representing the North Carolina Department of Agriculture & Consumer Services (NCDA&CS); one member representing the North Carolina Department of Environment & Natural Resources (NCDE&NR); the State Health Director or his designee

***Mr. James W. Burnette, Jr.**, Pesticide Administrator, Structural Pest Control & Pesticides Div., NCDA&CS, 1090 Mail Service Center, Raleigh, NC 27699-1090 (Tel. 919/733-3556 office) james.burnette@ncagr.gov

***Mr. Ted Bush**, Division of Water Quality, NCDE&NR, 1636 Mail Service Center, Raleigh, NC 27699-1636 (Tel. 919/715-6172 office) ted.bush@ncdenr.gov

***Dr. Mina W. Shehee**, Division of Public Health, Dept. of Health & Human Services, 2622 Meronies Church Road, Bear Creek, NC 27207 (Tel. 919/837-5148) mina.shehee@ncmail.net

One representative of a public utility or railroad company which uses pesticides

***Mr. Jimmy Brown**, Energy United, PO Box 1831, Statesville, NC 28687
(Tel. 704/924-2143) jimmy.brown@energyunited.com

One representative of the Board of Transportation

***Mr. Don Lee**, NC Dept. of Transportation, Roadside Environmental Unit, 1557 Mail Service Center,
Raleigh, NC 27699-1557 (Tel. 919/733-2520 office) dlee@dot.state.nc.us

One member of the North Carolina Agricultural Aviation Association

***Mr. Harold Thompson**, Air Ag, Inc., PO Box 36, Tarboro, NC 27886 (Tel. 252/823-5374 office) Harold@airag.com

One member of the general public (at large)

***Mr. Warren A. Davis**, 7320 Valley Lake Drive, Raleigh, NC 27612 (Tel. 919/848-1051)

One member actively engaged in forest pest management

***Mr. Coleman A. Doggett**, 217 Rosecommon Way, Cary, NC 27511 (Tel. 919/467-0551 home)
ncdoget@mindspring.com

One member representing the Division of Waste Management of the North Carolina Department of Environment and Natural Resources

***Ms. Jenny Patterson**, Division of Solid Waste Management, NCDE&NR, PO Box 11213, Winston-Salem, NC 27116
(Tel. 336/767-0031) jenny.patterson@ncdenr.gov

- * Agency appointments
- ** Appointed by Board

Chairman, Vacant
Vice-Chairman, Marshall W. Grant
Secretary, James W. Burnette, Jr., 1090 Mail Service Center, Raleigh, NC 27699-1090

PESTICIDE ENVIRONMENTAL TRUST FUND

Throughout 2014, 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 2014

NCDA&CS collected \$490,400.00 in environmental assessment fees from the registration of approximately 14,980 pesticide brands during 2014. Fifty percent of the receipts were for products with reported annual North Carolina gross sales of less than \$5,000, and fifty percent of the receipts were for products with annual sales of \$5,000 or more. (The annual environmental assessment/product is \$25 or \$50 per brand, respectively.)

BALANCES for 2014

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.

As of December 31, 2014 there was a balance of \$454,653.09 in Account No. 6136 and a balance of \$212,141.68 in Account No. 6137. The total amount in both accounts as of December 31, 2014 was \$666,794.77.

EXPENDITURES FOR 2014

During 2014, NCDA&CS accrued a total of \$490,400.00 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 2014 was \$131,795.00.

Funds from the PETF totaling \$60,000.00 were awarded to support local recycling of plastic pesticide containers during 2014.

REFUNDS FOR 2014

Refunds totaling \$746.77 were received during 2014 as follows:

\$262.34 – from East Carolina University (Online Training of Health Care Providers in Pesticide Related Illness)

\$16.26 – from East Carolina University (Risk Mitigation Measures Cost Share)

\$468.17 – from Harnett County (balance of container recycling grant)

CUMULATIVE PETF FIGURES (1993-2014)

As of December 31, 2014, a total of \$9,246,807.00 in receipts has been collected since the inception of the PETF.

Since 1993, PETF has provided a total of \$2,454,999.02 for support of agromedicine in North Carolina.

Expenditures for pesticide environmental programs between 1995 and 2014 have totaled \$6,554,272.71.

Summary of Pesticide Environmental Trust Fund Projects for 2014

Online Training of Healthcare Providers on Pesticide Related Illness and Health Issues (\$20,000.00) [2011]

A web-based course for pesticide illness and health issues, designed to meet the “National Pesticide Practice Skills Guidelines for Medical and Nursing Practice” and be guided by the Environmental Protection Agency’s handbook “Recognition and Management of Pesticide Poisonings”. A no-cost extension was granted for this project on November 26, 2013 to extend the project’s duration through June 20, 2014. The project was completed in June, 2014.

Risk Mitigation Measures Cost Share (\$20,000.00) [2011]

A project to provide cost-share funding for medical clearance, fit testing, training, and respirators for 200 additional farmers or farm workers at a rate not to exceed \$100.00 per individual. Training on selection, use, and care of respirators will be provided at no cost to individuals. A no-cost extension was granted for this project on May 17, 2013 to extend the project’s duration through June 30, 2014. The project was completed in June, 2014.

There are currently no active projects.

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 North Carolina. In 2014, the Pesticide Disposal Assistance Program supervised the collection and disposal of 196,932 pounds of pesticide waste at a total of 104 collection events. A total of 37 single day disposal events were organized by NCDA&CS in cooperation with NC Cooperative Extension during 2014. 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.

Pesticide Container Recycling Report for PETF in 2014

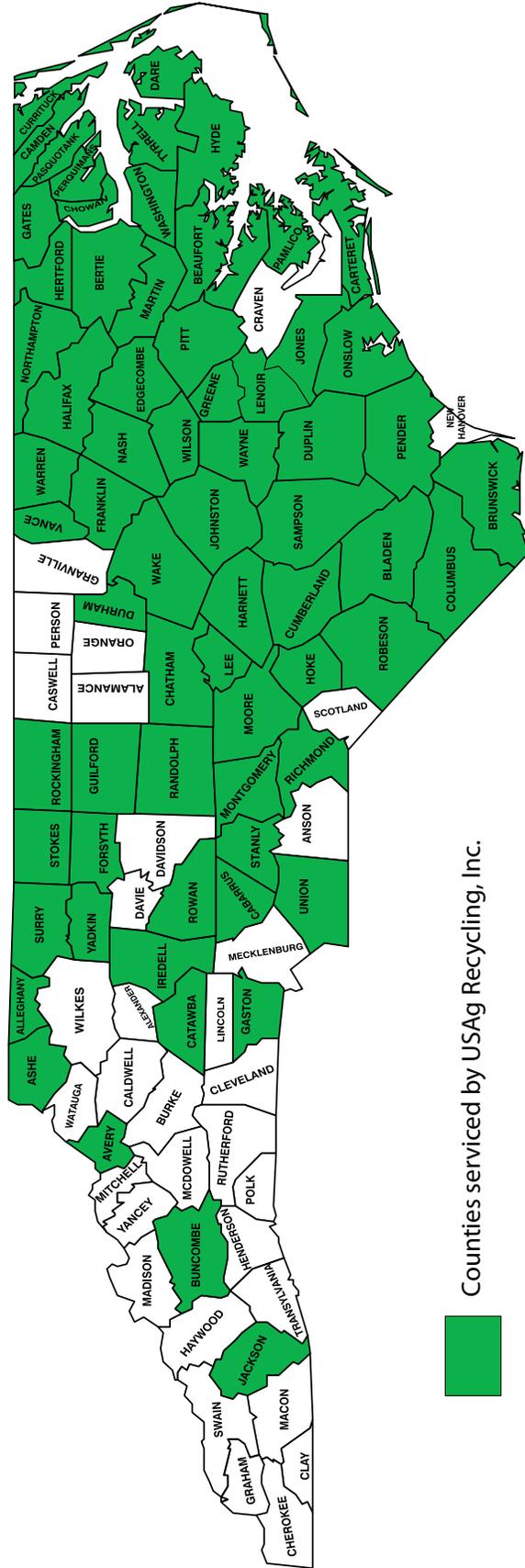
Farmers and commercial applicators participated in the recycling of plastic pesticide containers by transporting their empties to collection sites that were established by county agencies. USAg Recycling, Inc., the Ag Container Recycling Council (ACRC) approved recycler for North Carolina, reported that 555,427 pounds of plastic were recycled. This established a new record for North Carolina with over 6.5 million pounds recycled since 1995, which was the first year Pesticide Environmental Trust Fund grants were awarded to counties for pesticide container recycling programs. Sixty-six counties were participating in this recycling program. The recycled plastic is used to make industrial type products.

Pesticide Environmental Trust Fund grants were awarded to Beaufort, Chowan, Harnett, Hyde, Martin, Robeson, and Stanly counties. The total funding awarded to these counties was \$20,806. The grant funds were used to purchase 20-foot and 40-foot cargo containers, treated posts, instructional signs, plastic bags, gloves, pressure rinse nozzles, repair service for a cargo container, and transport service to move cargo containers to different sites.

Pesticide Inspector II's visited 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.

Summary of 2014 Container Recycling Activities



DEFINITIONS ADOPTED

Table I lists the analytical results of formulation samples based on the following:

“PASSED” - signifies that all active ingredients were found to be present at acceptable levels based on the label guarantee.

“Failed Due to Deficient Active Ingredient” – signifies that one or more active ingredients fell significantly below the guarantee. Such products are placed under “Stop Sale Order” and are removed from the market place.

“Failed Due to Excessive Active Ingredient” - indicates a significant excess of one or more active ingredients. Since such formulations could be harmful to the user and/or result in excessive residues, these products are placed under “Stop Sale Orders” and are removed from the market place.

Table II lists the analytical results of microbiological samples based on the following:

“PASSED” - indicates that the product was effective in killing the specific microorganisms guaranteed by the product label.

“Failed” - indicates that the product was ineffective in killing the specific microorganisms guaranteed by the product label or that bacterial contamination of the product was found.

Table III 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 - Analytical Results of Formulation
Samples Collected During 2014**

Name and Address of Company	SAMPLES		
	Passed	Deficient Active Ingredient	Excessive Active Ingredient
Albaugh Inc. Cordova, TN	1	-	-
Alligare, LLC Gig Harbor, WA	1	-	-
Ambrands Salem, VA	3	-	-
Amtide, LLC Irvine, CA	1	-	-
BASF Corporation Research Triangle Park, NC.....	2	-	-
Bayer Advanced, LLC Research Triangle Park, NC.....	12	-	-
Bayer Crop Science LP Research Triangle Park, NC.....	3	-	-
Bayer Environmental Sciences Research Triangle Park, NC.....	1	-	-
Bayer Healthcare, LLC Animal Shawnee Mission, KS.....	2	-	-
Bengal Products, Inc. Baton Rouge, LA	5	-	-
Bonide Products Inc. Oriskany, NY	26	-	-
Chemnico, Division of United Industries St. Louis, MO.....	10	-	-
Chem-Tech, Ltd. Des Moines, IA	2	-	-
Control Solutions Inc. Pasadena, TX	6	-	-
Dow Agrosiences, LLC Indianapolis, IN.....	1	-	-
Farnam Companies Inc. Phoenix, AZ.....	5	-	-
FMC Corporation/Agricultural Products Philadelphia, PA	1	-	-
Happy Jack, Inc. Snow Hill, NC.....	4	-	-
Lawn and Garden Products Fallon, NV.....	1	-	-
Lesco, Inc. Cleveland, OH	1	-	-
Loveland Industries Inc. Greeley, CO	2	-	-
Makhteshim-Agan of North America, Inc. Raleigh, NC	2	-	-
Manna Pro Corporation Greeley, CO	1	-	-
Monsanto Agricultural Company St. Louis, MO.....	14	-	-
Nufarm Inc. Burr Ridge, IL.....	3	-	-
Ortho Group, The Marysville, OH.....	12	-	-
PBI/Gordon Corporation Kansas City, MO.....	11	1	-
Prentiss, Inc. Floral Park, NY.....	1	-	-
Ragan and Massey, Inc. Fallon, NV.....	1	-	-
S.C. Johnson & Son, Inc. Racine, WI	2	-	-
Scott Company, The Marysville, OH.....	3	-	-

**Table I - Analytical Results of Formulation
Samples Collected During 2014**

Name and Address of Company	SAMPLES		
	Passed	Deficient Active Ingredient	Excessive Active Ingredient
Senoret Chemical Company Inc. Lititz, PA.....	2	-	-
Source Dynamics Mesa, AZ	1	-	-
Southern Agricultural Insecticides Inc. Palmetto, FL.....	4	-	-
Spectrum Group, Division of United Industries St. Louis, MO.....	22	-	-
Star Horses Products/ Adam Tech Davis, CA.....	2	-	-
Syngenta Crop Protection Greensboro, NC.....	3	-	-
Tech Pac LLC Covington, GA	4	-	-
Tenkoz Inc. Alpharetta, GA.....	3	-	-
United Phosphorus, Inc. King of Prussia, PA.....	1	-	-
Universal Cooperative, Inc. Eagan, MN.....	3	-	-
Voluntary Purchasing Groups Inc. Bonham, TX	18	-	-
Wellmark International Schaumburg, IL	4	-	-
Zep Com Sales & Service Atlanta, GA.....	3	-	-

**Table II - Analytical Results of Microbiological
Samples Collected During 2014**

Name and Address of Company	SAMPLES	
	Passed	Failed
Aero Chemical Company		
Atlanta, GA.....	2	1
Betco Corporation		
Toledo, OH.....	1	-
Brulin & Company		
Indianapolis, IN.....	1	-
Chase Products Company		
Indianapolis, IN.....	2	-
Chem-Tech, Ltd.		
Des Moines, IA.....	2	-
Clorox Professional Products		
Columbia City, IN.....	1	-
Diversey, Inc.		
Sturtevant, WI.....	2	-
Franklin Cleaning Technology		
Great Bend, KS.....	2	-
Good Housekeeper Maintenance		
Thomasville, NC.....	1	1
Handi-Clean Products, Inc.		
Greensboro, NC.....	2	-
Hy-Speed Cleaning Products		
Castle Hayne, NC.....	2	-
Image Supply, Inc.		
Lumberton, NC.....	2	-
Industrial Paper Products, Inc.		
Burlington, NC.....	3	-
ITW Professional Brands		
Olathe, KS.....	2	-
National Chemical Laboratories Inc.		
Philadelphia, PA.....	1	-
Spartan Chemical Company, Inc.		
Maumee, OH.....	1	-
Spray Nine Corporation		
Solon, OH.....	1	-
Wepak Corporation		
Charlotte, NC.....	-	4

Table III - Manufacturers Found to Have Unregistered or Misbranded Products in the Marketplace During 2014

Name and Address of Company	SAMPLES	
	Unregistered	Misbranded
Aero Chemical Company Atlanta, GA 30321	2	-
Ambrands Salem, VA 24153.....	1	1
Amcors Group USA No address available	1	-
Aroma Paws Tarzana, CA	2	-
Bayer Crop Science RTP, NC.....	1	-
Big D Industries Oklahoma City, OK.....	1	-
BirdSong Farm, LLC Lindsay, WV.....	1	1
Black Leaf Products Company Elgin, IL.....	1	-
Bonide Products, Inc. Oriskany, NY 13424.....	2	-
Bright Solutions, LLC Chattanooga, TN.....	3	-
Brushy Mountain Bee Farm, Inc. Moravian Falls, NC.....	1	1
Cedar Creek Organics, LLC Arbor Vitae, WI.....	2	2
Chemco Corporation Miami Gardens, FL.....	1	-
Clorox de Mexico San Nicolas Tlaxcoplan.....	1	1
CVS Pharmacy, Inc. Woonsocket, RI.....	2	-
Direct Line St. Louis, MO.....	2	-
Dragon Chemical Corporation Roanoke, VA 24019.....	3	-
EcoBlend, LLC Pittsboro, NC 27312	1	1
Excel Marketing, Inc. Covington, GA 30014.....	1	-
Fetch For Pets! New York, NY 10018.....	3	-
Fly Free Zone Los Angeles, CA 90024	1	-
GBZ International, LLC Coral Springs, FL 33071	2	2
General Nutrition Company, Inc. Pittsburgh, PA 15222.....	1	-
Greenbug All Natural Pest Control Beaufort, SC 29907.....	1	-
Gro Tec, Inc. Covington, GA 30014.....	1	-
Halifax Fertilizer Co., Inc. Enfield, NC 27823	1	-
Happy Jack, Inc. Snow Hill, NC 28580	1	-
Hartz Mountain Corp. Secaucus, NJ 07094	1	-
Harvest Garden Pro, LLC Milford, DE 49963	1	-
Honky Tots, Inc. dba California Baby Los Angeles, CA 90016	1	-
Howard Fertilizer & Chemical Co., Inc. Orlando, FL 32862	1	-

Table III - Manufacturers Found to Have Unregistered or Misbranded Products in the Marketplace During 2014

Name and Address of Company	SAMPLES	
	Unregistered	Misbranded
KAS Direct, LLC Westbury, NY.....	1	-
Lafes Natural BodyCare Austin, TX 78753.....	1	-
Lime-O-Sol Company Lawrenceville, GA 30049.....	1	-
Lynwood Laboratories Needham, MA 02492.....	1	-
Mark Feldstein & Associates Maumee, OH 43537.....	1	-
Mole-Med, Inc. Aurora, IN 47001.....	1	-
Natural Forces, LLC Davidson, NC 28036.....	1	-
Naturale Ltd. Great Neck, NY 11021.....	1	-
Nutri-Vet, LLC Boise, ID 83713.....	1	1
Nyco Products Company Countryside, IL 60525.....	1	-
Organic One, Inc. Altha, FL 32421.....	2	-
Oxford & Hill Home Products Miami Beach, FL 33140.....	1	-
Pacific Sands, Inc. Racine, WI 53404.....	2	-
Pet Kiss, Inc. Palmadale, CA 93551.....	1	1
Petco Animal Supplies, Inc. San Diego, CA 92121.....	1	-
Pool Water Specialist Charlotte, NC 282154.....	4	-
Protexall Products, Inc. Pearl River, LA 70452.....	1	-
Quick Start Marketing, LLC Ozark, AL 36360.....	1	1
R & R Group, LLC Granite Bay, CA 95746.....	1	-
RGL Distributors, LLC Ardmore, PA 19003.....	1	-
Saba Chemical Corporation Brooklyn, NY 11207.....	7	-
Safeguard Chemical Corporation Bronx, NY 10454.....	26	-
Southern As Insecticides Palmetto, FL 34220.....	1	-
Spargo Enterprises, Inc. Gastonia, NC 28056.....	1	-
Specialty Products of America, LLC West Palm Beach, FL 33405.....	1	-
Spectrum Brands/United Industries St. Louis, MO 63114.....	1	-
Spectrum Group St. Louis, MO 63114.....	2	-
Star Brite Ft. Lauderdale, FL 33314.....	1	-
Sunbeam Candles No address available.....	1	1
Synergy Labs Ft. Lauderdale, FL 33312.....	1	-
Theochem Laboratories Tampa, FL 33610.....	1	-

Table III - Manufacturers Found to Have Unregistered or Misbranded Products in the Marketplace During 2014

Name and Address of Company	SAMPLES	
	Unregistered	Misbranded
Timber Wolf, LLC Charlotte, NC 28247	1	1
Universal Crop Protection Alliance Eagan, MN 55121	1	-
Value Smart Products, Inc. Greeley, CO 80634	1	-
Verti-Science Laboratories Essex Junction, VT 05452	1	-
Voluntary Purchasing Groups, Inc. Bonham, TX 75418	3	-
Walgreen Company Deerfield, IL 60015	1	-
Winfield Solutions, LLC St. Paul, MN 55164	5	-
Wondercide, LLC Austin, TX 78758	2	-

**Summary of 2014
Program Activities Performed
Under the N. C. Pesticide Law of 1971**

PESTICIDE REGISTRATIONS

Total Number of Registrants.....	1,544
Registrants from North Carolina.....	118
Pesticide Products Registered.....	14,980
Section 24(c) Registrations.....	55
Section 18 Exemptions.....	3
Product Registration Checks.....	15,979

COMPLIANCE MONITORING

Inspections.....	10,013
Worker Protection.....	391
USDA.....	0
Investigations.....	89
Citizen's Inquiries.....	128

PHYSICAL SAMPLES SUBMITTED FOR ANALYSES

Formulation.....	210
Disinfectants.....	34
Investigation.....	141
Domestic Wells.....	5

REGULATORY ACTIONS

Stop-Sale, Stop Use, Removal Orders.....	165
License or Certification Suspensions.....	0
License Revocations.....	0
Civil Penalties.....	48
Notices of Noncompliance.....	231
Notices of Warning.....	15
Delinquent Registration Penalties.....	\$ 7,600.00

COURSES APPROVED

Number of courses.....	1,267
Number of credits issued.....	2,780

EXAMINATIONS

Exams Administered.....	6,237
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LICENSED APPLICATORS

Pesticide Dealer Licenses.....	698
Ground Pesticide Applicator Licenses.....	10,222
Aerial Pesticide Applicator Licenses.....	148
Public Operator Licenses.....	5,149
Pest Control Consultant Licenses.....	116
Total Pesticide Licenses.....	16,333

CERTIFIED APPLICATORS

Private Pesticide (Active) Applicators.....	14,614
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PESTICIDE ENVIRONMENTAL TRUST FUND

Active Projects	2
Disbursements	\$ 398,770.37
Agromedicine	131,795.00
Container Recycling	60,000.00
Other Environmental Projects	\$ 206,975.37
Plastic Pesticide Container Recycling	
Number of Counties with active programs.....	66
Total weight collected	555,427

PESTICIDE DISPOSAL ASSISTANCE PROGRAM

Containers	12,217
Drums	35
Pounds	196,932
Collection Events.....	104

OUTREACH

Fairs and/or Trade Shows.....	18
Presentations at Recertification Classes.....	261