



PESTICIDE AND PLANT PEST MANAGEMENT DIVISION

Gina Alessandri, Division Director

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LETTER FROM THE DIRECTOR

Welcome to the Pesticide and Plant Pest Management Division (PPPM). We are a division within the Michigan Department of Agriculture and Rural Development with a broad and diverse range of responsibilities for protecting human and animal health, the environment, and domestic plant industries; and facilitating international and interstate trade of plant-based commodities. PPPM accomplishes this by regulating the production, distribution, and use of pesticides, animal feed and fertilizer products; by surveying for and responding to detection of invasive species; by inspecting nursery stock and Christmas trees; and by certifying that plants, plant products, fruits and vegetables meet grade or phytosanitary requirements of receiving businesses, states, and countries. PPPM's diverse activities are divided into three programmatic sections:

Our **Pesticide Section** is responsible for protecting human health and the environment from unnecessary risks associated with improper pesticide use. Program responsibilities include the certification and licensing of pesticide applicators and firms, registration of pesticide products, monitoring pesticide manufacturing establishments, regulating the sales and distribution of restricted use pesticide products, investigating pesticide use practices and misuse complaints, and enforcement of federal worker protection standards. Additional activities include insect, rodent, and arbovirus management.

Our **Plant Industry Section** is responsible for assuring plant material as well as fruits and vegetables meet specific standards and are free of harmful insects and diseases. Program responsibilities include certifying nursery stock and Christmas trees; inspecting commodities such as dry beans, lumber, fresh produce, nursery stock, and flowers for foreign export; and inspecting and grading fresh fruits and vegetables. Additional responsibilities include enforcement of various state and federal quarantine programs and exotic pest survey and response.

(continued)

LETTER FROM THE DIRECTOR

Lastly, our **Agricultural Products/Producer Security Section** is responsible for enforcement of producer and consumer protection laws related to the storage and handling of grain products including the manufacture and distribution of commercial animal feeds, fertilizers, and liming materials. Program responsibilities include licensing and auditing of grain storage facilities; inspection and sampling of animal feeds, fertilizers, and liming materials for quality assurance and food safety; and inspecting bulk agrichemical storage facilities.

This report summarizes the many activities and accomplishments of the PPPM division for fiscal year (FY) 2017. As in previous years, staff worked closely with consumer and commodity groups, industry, and state and federal partners to provide exceptional, high quality service to our stakeholders and the citizens of the state. I am extremely proud of the work performed by division staff each and every day and happy to share this report with you.

***The mission of the Pesticide and Plant Pest Management Division is to:
Protect human health and the environment, while fostering
a diverse, viable Michigan agriculture.***

Gina Alessandri, Division Director
Pesticide and Plant Pest Management Division

Plant Health Certification and Export

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The Plant Health and Export Certification Program, through the inspection of nursery stock, helps prevent the introduction and dissemination of serious insects and diseases injurious to nursery stock, plants, and plant products. The program facilitates the export and import of nursery stock, plants, and plant products and agricultural commodities to and from other states or countries by developing and implementing programs for the detection, eradication, or control of serious pests and diseases.

IMPACT FOR MICHIGAN:

Certifying plant-based commodities facilitates shipment to other states and countries. Nursery stock producers generate about \$291 million in annual sales and distribute over 50 percent of their products in 35 states. Michigan Christmas tree production has an annual farm gate value of \$41 million. Michigan consumers benefit by being assured the nursery stock they purchase is free of pests and diseases.

Preventing the introduction of plant pests and other invasive species into Michigan protects our agricultural, urban and natural resources, promotes domestic and international commerce, minimizes control costs, and promotes tourism and outdoor recreational industries

ACCOMPLISHMENTS:

- Facilitated hardwood exports by promoting the enrollment of firms in the USDA Lumber Export Certification Program and by conducting batch inspections of logs and lumber versus single point inspections.
- Protected Michigan hemlock trees from harmful pests by intercepting quarantine-prohibited nursery stock originating from infested states.
- Collaborated with USDA to assure MDARD's Authorized Certification Officials' (ACO) credentials were updated. MDARD's well-trained staff of ACO's assured on-time departure of over 4,900 export shipments, which facilitated trade to 93 countries worldwide.

MEASURING SUCCESS:

Metric	2016	2017
Nursery stock growers inspected	1,321	1,389
Nursery stock dealers inspected	1,033	1,174
Export certificates issued	4,802	4,959
Christmas tree fields inspected	318	307

PROGRAM GOALS:

- Inspect all nursery stock growers in the state.
- Continue the use of a pest risk-based approach in the inspection of nursery stock dealers.
- Increase the efficiency of the export certification program facilitating savings which can be passed on to industries served.
- Protect Michigan's agricultural and silvicultural resources from unwanted insect pests and plant diseases through quarantine compliance monitoring.



KEY STAKEHOLDERS:

- Nursery stock growers and dealers
- Fruit and vegetable producers
- Hay, straw, grain, log, and lumber exporters
- Christmas tree growers
- Greenhouse/floriculture growers
- Michigan citizens

LEGAL AUTHORITY:

- The Insect Pest and Plant Disease Act, PA 189 of 1931, as amended
- Insect Pests and Plant Diseases, PA 72 of 1945

Invasive/Exotic Pest Detection and Response

PROGRAM MANAGER: John Bedford
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The Invasive/Exotic Pest Detection and Response Program has the responsibility for early detection of exotic and invasive pests of agriculture and forestry and management of these pests before they become established in the state. Early detection is critical for the implementation of mitigation actions that can effectively eradicate or contain invasive pest populations and minimize their impacts. Early detection is accomplished through pathway analysis and risk-based trapping, inspection, and outreach programs for high-risk target species statewide. Sustained monitoring programs keep national and international markets open to Michigan-produced agricultural and forest commodities.

IMPACT FOR MICHIGAN:

Michigan has the second-most diverse agricultural industry, fifth-most timberland, and sixth-largest green industry in the United States. The Port of Detroit is the busiest commercial border crossing in the world. This places Michigan at exceptional risk for the introduction, establishment, and impacts of invasive/exotic pests. Left undetected and unmanaged, these pests can reduce agricultural yields, increase input costs, lower the volume and quality of timber, reduce forest biodiversity, imperil threatened and endangered species, and impact property values in forested urban and suburban communities.

ACCOMPLISHMENTS:

- Completed the development of a coordinated statewide strategy to respond to the hemlock woolly adelgid infestations in the western Lower Peninsula.
- Engaged with the Department of Natural Resources, the USDA-Forest Service, Michigan State University, and Cooperative Invasive Species Management Areas in the hemlock woolly adelgid response.
- Educated over 680 industry professionals and other members of the public on invasive/exotic pest detection and reporting.
- Issued or maintained 45 emerald ash borer compliance agreements to allow for the continued utilization of ash timber, primarily in the Upper Peninsula.
- Facilitated the export of up to 325 acres of seed potatoes valued at up to approximately \$1.3 million through extensive soil sampling for exotic cyst nematodes.

MEASURING SUCCESS:

Metric	2016	2017
Invasive Species Awareness (audience hours)	207	547
Forest, Fruit, and Field Crop Survey Sites	74	132
Emerald Ash Borer Compliance Agreements	60	48
Seed Potato Acreage Certified for Export	106	325

PROGRAM GOALS:

- Coordinate and implement a statewide strategy to protect Michigan’s hemlock resource in response to hemlock woolly adelgid.
- Continue the development of response plans and strategies in order to be prepared should Asian longhorned beetle be detected in the state.
- Continue education of industry professionals and other members of the public on exotic/invasive forest pest detection and reporting to ensure that citizens, in the best position to discover new pests, have the knowledge to recognize them and report their findings.
- Respond to new reports of exotic/invasive pests, including hemlock woolly adelgid, Asian longhorned beetle, emerald ash borer, thousand cankers disease of black walnut, and balsam woolly adelgid.
- Continue to facilitate the export of seed potatoes through USDA-funded potato cyst nematode surveys.



KEY STAKEHOLDERS:

- Agricultural producers
- Forest products producers
- Property owners, municipalities, and businesses maintaining turf and landscape plants
- Nursery plant, Christmas tree, and floriculture producers
- Citizens engaged in recreational activities in native forests

LEGAL AUTHORITY:

- The Insect and Plant Disease Act, PA 189 of 1931, as amended
- Insect Pests and Plant Diseases, PA 72 of 1945
- National Environmental Act (NEPA) of 1969, as amended
- The Plant Protection Act

Fruit and Vegetable Inspection

PROGRAM MANAGER: Robin Rosenbaum
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The Fruit and Vegetable (F&V) Inspection Service offers unbiased, third party grading services and verification of fruit and vegetable quality based on government standards and/or processor specifications. In addition, this program provides Good Agricultural Practices (GAP) and Good Handling Practices (GHP), third-party food safety audits, and licensing and inspection of controlled atmosphere storage facilities.

IMPACT FOR MICHIGAN:

The F&V inspection program protects buyers, brokers, and consumers from receiving poor quality produce or produce from anywhere in the world which does not meet the promised grade or condition. In addition, it protects farmers by providing them an unbiased, third-party inspection upon which they are paid fairly for their produce. Processing plants are also protected from receiving poor-quality produce in processed goods. The F&V inspection staff also perform GAP/GHP food safety audits which verify that Michigan produce has been produced and handled in a manner that minimizes food safety concerns thereby opening markets for Michigan producers and handlers.

ACCOMPLISHMENTS:

- Responded to requests for inspection within 12-24 hours of the request.
- Finalized and implemented the Branch Inspection Quality Management System within the Michigan F&V Inspection program. A quality management system is a collection of business processes focused on consistently meeting customer needs and maintaining or increasing their satisfaction with the program.
- Hired and trained two new full-time inspectors and two additional seasonal inspectors to ensure through timely inspection of perishable commodities the needs of industry are met.

MEASURING SUCCESS:

Metric	2014	2015	2016	2017
Market Inspections	796	800	1,028	1,097
Shipping Point Certificates Issued	595	742	1,315	1,375
Total Hundredweight Inspected	563,535	483,034	835,830	1,015,770
GAP/GHP Audits Performed	249	248	255	226

PROGRAM GOALS:

- Create monitoring tools to assist with the implementation of the Branch Inspection Quality Management System within the Michigan F&V Inspection Program. These tools will help to ensure the management system is being followed, promoting a skilled and efficient workforce.
- Increase the number of inspectors licensed to perform market inspections on all commodities by sending eligible inspectors to the 30-day market school. This will ensure the availability of trained staff in key locations so that excellent response times can be maintained and the cost of inspection to the producer or firm can be minimized.
- Maintain or exceed excellent response times for market (12 hours), shipping point (24 hours) inspections, and for GAP/GHP audits, which need to occur during harvest.



KEY STAKEHOLDERS:

- Michigan fruit and vegetable growers and processors
- Michigan shippers
- Buyers, brokers, and consumers
- Food retailers
- U.S. Department of Agriculture

LEGAL AUTHORITY:

- Market Conditions, PA 91 of 1915

Agrichemical Bulk Storage

PROGRAM MANAGER: Gary King
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The Agrichemical Bulk Storage Program regulates commercial facilities storing bulk agrichemicals and private facilities storing bulk liquid fertilizers by requiring tank containment, a mixing and loading pad, and an emergency response plan. Inspections help ensure bulk fertilizer and pesticide containments are constructed, installed, and maintained in a safe manner, with the least possible impact on people, property, and the environment. Construction plans are reviewed and site consultations and inspections are conducted to help facilitate new projects and ensure bulk quantities of agrichemicals are stored properly and securely.

IMPACT FOR MICHIGAN:

The Agrichemical Bulk Storage Program safeguards about 91 million gallons of Michigan agrichemicals and ensures fertilizers and pesticides are properly identified, stored, and secured to prevent misuse and environmental discharges. The program promotes economic development by enforcing regulations, providing environmental protections, and maintaining a strong relationship with agribusiness companies expanding their operations. This regulatory oversight benefits industry and producers by preventing environmental contamination and saving thousands of dollars in product losses and clean-up costs if a spill or release were to occur. This program initiates proactive efforts to help provide a safer environment through proper storage of agrichemicals.

ACCOMPLISHMENTS:

- Performed commercial consultations with businesses building new containment and renovating existing containment where storage capacity increased by over 11 million gallons.
- Conducted farm consultations and outreach activities to inform staff, industry, and producers about on-farm fertilizer storage and poly tank integrity.

MEASURING SUCCESS:

Metric	2016	2017
Bulk Storage Facility Registrations Issued	226	221
Facilities Inspected	115	116
State Liquid Agrichemical Storage Capacity (gallons)	80 million	91 million

PROGRAM GOALS:

- Inspect at least 50 percent of registered bulk storage facilities.
- Increase construction and site plan reviews and on-site consultations to ensure proper agrichemical containment construction and promote Michigan's economic development.
- Increase outreach efforts to advise agricultural dealers and farmers on ways to deter illicit use of agrichemicals such as anhydrous ammonia, while protecting their safe, intended use.



KEY STAKEHOLDERS:

- Fertilizer and pesticide manufacturers and distributors
- Agricultural producers
- Michigan Agri-Business Association
- Michigan Farm Bureau

LEGAL AUTHORITY:

- Natural Resources Environmental Protection Act, PA 451 of 1994, as amended
 - Part 83, Pesticide Control
 - Part 85, Fertilizers
 - Part 87, Groundwater and Freshwater Protection
- Regulation 640, Commercial Pesticide Bulk Storage
- Regulation 641, Commercial Fertilizer Bulk Storage
- Regulation 642, On Farm Fertilizer Bulk Storage

Fertilizer and Liming Materials

PROGRAM MANAGER: Gary King
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The Fertilizer and Liming Program regulates approximately 700 manufacturers and distributors of 1.4 million tons of fertilizers, soil conditioners, and liming materials for both farm and non-farm use and assures that fertilizers meet label claims and guarantees and are stored securely in an environmentally protective manner.

IMPACT FOR MICHIGAN:

Fertilizer is the most widely used agrichemical and is agronomically applied on about 5.5 million acres of Michigan farmland.

Michigan producers and industry rely on this program to purchase accurately labeled fertilizers, to maximize yields and maintain a profitable agricultural operation. Current inspection data indicates violation rates for grade guarantees are in the 15 percent range.

Restrictions limiting phosphorus applications on turf help maintain and protect Michigan's vast water resources.

Residents purchasing home and garden fertilizers rely on this program to protect them from misbranded products.

ACCOMPLISHMENTS:

- Reviewed and analyzed 24 turfgrass fertilizers with “zero phosphorus” claims, 21 of which were found to be truthful. Issued stop sale violation notices to three manufacturers selling misbranded products with a false claim.
- Sampled and analyzed 253 fertilizer samples and tested for 590 analytes. Fifty-four of the samples were below tolerance, creating a nine percent violation rate. Violation notices were sent to all retailer and manufacturer locations with a violative sample.
- Registered 740 fertilizer and soil conditioner facilities in Michigan and licensed 5,398 specialty fertilizers and 649 soil conditioners.

MEASURING SUCCESS:

Metric	2016	2017
Fertilizer Licenses Issued	774	739
Specialty Products Registered	5704	6170
Liming Material Licenses Issued	107	94

PROGRAM GOALS:

- Increase marketplace surveillance inspections of fertilizers to help prevent illegal trade and sale of unapproved and unregistered products to homeowners, professional applicators, and farmers.
- Increase fertilizer sampling and analysis activities to verify label guarantees for industry and consumers.
- Continue to focus on fertilizer and water quality reports and fee payment auditing activities to ensure all manufacturing facilities are complying with the state fertilizer law and regulation.



KEY STAKEHOLDERS:

- Fertilizer manufacturers
- Agricultural producers
- Turfgrass application businesses
- Michigan Agri-Business Association

LEGAL AUTHORITY:

- Part 85, Fertilizers, Natural Resources Environmental Protection Act, PA 451 of 1994, as amended
- Part 87, Groundwater, Natural Resources Environmental Protection Act, PA 451 of 1994, as amended
- Liming Materials, PA 162 of 1956
- Regulation 634, Commercial Fertilizers

Producer Security

PROGRAM MANAGER: Jeff Haarer
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The Grain Dealers Act regulates the storage, warehousing, and sale of farm produce in Michigan. The Farm Produce Insurance Authority administers the collection of producer assessments, the payment of producer claims, and the investment of producer funds.

This program also assists with producer security regulations under the Wholesale Potato Dealers and the Manufacturing and Fluid Milk programs. The Agricultural Marketing and Bargaining Act works with the industry to establish marketing and processing pricing for asparagus and apple crops grown in Michigan. The program also provides marketing program financial, compliance, and assessment review services for legislatively enacted commodity associations.

IMPACT FOR MICHIGAN:

Producers rely on licensed grain dealers to hold and protect grain deposits similar to when we deposit our savings in a bank. The Farm Produce Insurance Act was enacted to protect farmers in the event of a farm produce dealer's financial failure. In 2016 there were over 480 million bushels of corn, dry beans, oats, soybeans, and wheat handled by Michigan's 210 licensed grain dealers (198 in-state).

Over the past 30 years, producers have lost over \$14 million through numerous insolvencies at grain dealers in Michigan. Grain dealer, wholesale potato dealer, livestock auctions, and dairy plant insolvencies impact communities, businesses, and farmers through loss of jobs, income, and market.

ACCOMPLISHMENTS:

- The Grain Dealers Act amendment went into effect to establish a priority lien for producers and lenders for farm produce delivered to a licensed grain dealer for sale or storage and will provide priority to a producer over a general line of credit.
- The cap on the insurance fund of \$10 million was met and assessments were decreased from .00215 to .00015.
- Farm Produce Insurance Authority paid \$794 for one producer claim from one grain dealer failure that occurred in 2016.
- Farm Produce Insurance Authority retained Comerica Bank as its financial institution.

MEASURING SUCCESS:

Metric	2016	2017
Total Licensed Facilities Utilizing ExamNet Software (grain self-inventory software for licensees): 163 (95% of 171 Licensees with ExamNet).	163	163
In-State Risked-Based Audits are Performed on a 12-month Cycle.	179	178

PROGRAM GOALS:

- Licensing programs will monitor renewal applications to assure previously licensed businesses maintain business licenses if they remain active.
- Move site review emphasis toward risk-based working capital audits and away from inventory audits.
- Provide support for Farm Produce Insurance Authority in liquidation, claim payment, and recovery regarding financial losses to producers from grain dealer failure in central southern Michigan.
- Review Farm Produce Insurance Authority investment and banking operations to determine if most efficient and effective for safeguarding and administering \$10 million Farm Produce Insurance Fund.



KEY STAKEHOLDERS:

- Agricultural producers
- Michigan Agri-Business Association
- Michigan Farm Bureau
- Michigan Agricultural Commodity Marketing Associations

LEGAL AUTHORITY:

- Grain Dealers Act, PA 141 of 1939, as amended
- Farm Produce Insurance Act, PA 198 of 2003, as amended
- Whole Sale Potato Dealers Act, PA 158 of 1964
- Manufacturing, PA 266 of 2001, and Fluid Milk, PA 267 of 2001, Acts, as amended
- Livestock Dealers Act, PA 284 of 1937, as amended
- Agricultural Commodities Marketing Act, PA 232 of 1965, as amended
- Agricultural Marketing and Bargaining Act, PA 344 of 1972, as amended

Animal Feed Program

PROGRAM MANAGER: Timothy Lyons
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The Animal Feed Program protects animal and human food supplies by assuring safe and wholesome animal feeds and feed ingredients are produced using approved ingredients and additives, are uncontaminated, and are labeled properly. With 1,300 manufacturers and distributors of over 3 million tons of commercial feed and feed ingredients, protection of this feed supply is accomplished by inspecting various types of facilities, reviewing feed formulations and dosages of medicated feeds, ensuring compliance with Current Good Manufacturing Practices, and sampling and analyzing feed products and ingredients to confirm compliance with state and federal regulations.

IMPACT FOR MICHIGAN:

Michigan farmers produce an estimated \$2.3 billion worth of meat, milk, and eggs, and rely on the effectiveness of this program for their livelihood. Furthermore, more than half of Michigan households have one or more pets, meaning millions of pet owners depend on a nutritional and safe feed supply. Feed contamination incidents and recalls demonstrate the need for product surveillance, rapid response capabilities, and strong feed enforcement programs for food-producing animals and for pets.

ACCOMPLISHMENTS:

- Legislative changes to the Michigan Feed Law were introduced as HB4811 to adopt federal language promoting the safety of animal feed through good manufacturing practices and preventive controls.
- MDARD was awarded a grant to begin implementing the Animal Feed Regulatory Program Standards, making MDARD a partner in more consistent, fair, and predictable regulation of feed manufacturers and distributors nationwide.
- Due to a rule change regarding the use of antibiotics in food producing animals, the feed program initiated inspections at firms distributing/manufacturing Veterinary Feed Directive (VFD) feeds. The basis of these inspections were to help educate firms on the VFD rule and offer compliance assistance to them.

MEASURING SUCCESS:

Metric	2016	2017
Feed Mill Sanitation Inspections (*eliminated these type of inspections at grain elevators in 2017)	389	348*
State Medicated Feed Inspections	110	91
Feed Samples	910	1110
Veterinary Feed Directive Inspections	NA	56

PROGRAM GOALS:

- Implement and communicate any Michigan Feed Law changes and updates to stakeholders.
- Prepare Michigan’s feed program staff and feed industry on training and meet compliance deadlines for the federal Food Safety Modernization Act (FSMA) rules; specifically, the Preventive Controls for Animal Food Rules.
- Assure market access for Michigan food and agriculture by updating the Michigan feed law to maintain national and global consistency. This includes adopting the federal FSMA rules.
- Continued focus and promotion of feed safety through enhanced and strategized surveillance, inspection, outreach, and auditing activities.
- Implement a year-around feed program to enhance the safety of the feed supply chain.



KEY STAKEHOLDERS:

- Feed manufacturers and distributors
- Agricultural producers
- Pet owners
- Michigan Agri-Business Association
- U.S. Food and Drug Administration

LEGAL AUTHORITY:

- Michigan Feed Law, PA 120 of 1975
- Regulation 635, Commercial Feed

Pesticide Registration

PROGRAM MANAGER: Brian Verhougstraete
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Pesticide registration is an important part of the process for protecting human health and the environment. The registration of pesticides provides the mechanism to identify and track use and sale in the State of Michigan with fees being an important source of funding. Funding from pesticide registration is key in supporting inspection and monitoring programs that promote compliance with state and federal laws and regulations and help in mitigating misuse.

IMPACT FOR MICHIGAN:

Registering pesticides ensures producers, businesses, and citizens have access to the pesticides they need to protect themselves, their crops or their property from damaging pests including insects, vertebrates, fungi, bacteria, and weeds. Registration also provides MDARD with a means of cancelling or restricting the use of a pesticide in the event it is causing unreasonable adverse effects on human health or the environment.

ACCOMPLISHMENTS:

- Issued four new, and maintained 40 existing, Special Local Needs registrations to Michigan's growers, giving them additional pesticide tools to protect their crops from damaging pests, including spotted wing drosophila.
- Requested three emergency use exemptions from EPA on behalf of Michigan's cherry, mint and sugar beet growers to allow expanded use of certain pesticides for a limited time during potentially devastating pest situations.
- Conducted 13 federal marketplace inspections on behalf of the EPA to ensure that pesticides being offered to consumers are properly labeled and registered with the EPA.

MEASURING SUCCESS:

Metric	2016	2017
Pesticides Registered for Sale in Michigan	15,842	16,137
Marketplace Inspections Conducted	133	151
Unregistered Pesticides Found	124	159
Enforcement Actions Taken	93	106

PROGRAM GOALS:

- Prepare and submit emergency exemption requests on behalf of Michigan’s agricultural producers.
- Review, issue, and maintain Special Local Need registrations on behalf of Michigan’s agricultural producers.
- Promote a fair business environment by conducting at least 114 state marketplace inspections at pesticide retailers to ensure pesticides being sold are registered by MDARD.
- Protect human health and the environment by reviewing pesticide labels and conducting federal marketplace inspections at pesticide retailers.



KEY STAKEHOLDERS:

- Pesticide manufacturers
- Commodity groups, particularly those that represent specialty crop growers
- Michigan Agri-Business Association
- Michigan State University

LEGAL AUTHORITY:

- Pesticide Control, Natural Resources and Environmental Protection Act, PA 451 of 1994, Part 83, as amended

Pesticide Business Licensing

PROGRAM MANAGERS:

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Antonio Castro-Escobar - Restricted Use Pesticide Licenses and Agricultural Pesticide Dealers Licenses

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Businesses that apply pesticides for hire, dealers of restricted use pesticides, and dealers of agricultural pesticides all play key roles in Michigan business and agriculture. MDARD has the responsibility of supporting these businesses while at the same time promoting the safe use of pesticides. These businesses are licensed to help ensure compliance with all applicable laws and regulations in an effort to protect human health and the environment.

IMPACT FOR MICHIGAN:

In FY17, MDARD issued in excess of 2,500 pesticide applicator business licenses, 300 restricted use pesticide dealer licenses and 350 agricultural pesticide dealer licenses. These licenses ensure these businesses are following pesticide laws and regulations or risk suspension or revocation.

ACCOMPLISHMENTS:

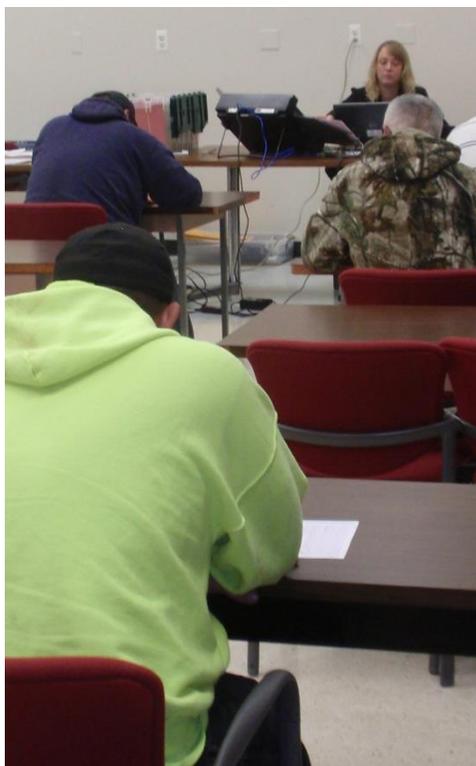
- Monitored for Pesticide Applicator Business compliance with business license requirements to assure a fair business environment and protect consumers from illegal business operations.
- Monitored sales of restricted use pesticides to ensure they were only sold to certified applicators.
- Approved more than 1,000 continuing education courses, which allowed certified applicators to renew their certification credentials.

MEASURING SUCCESS:

Metric	2016	2017
Unlicensed PAB inspections	253	71
Unlicensed PAB enforcement	36	8
RUP sales audit inspections	24	24
RUP sales violation enforcement	4	3
Recertification by seminar sessions approved	1,084	1,391

PROGRAM GOALS:

- Monitor recertification by seminar courses to ensure course content is appropriate and relevant.
- Conduct at least 24 restricted use pesticide audits.
- Eliminate the use of bubble sheets for recertification by seminar courses and develop an online system that applicators can use to manage their recertification credits.
- Ensure business and individuals can legally operate in the state by issuing licenses and certification credentials in a timely matter.



KEY STAKEHOLDERS:

- Pesticide application businesses
- Michigan Pest Management Association
- Agricultural producers
- Restricted-Use pesticide dealers
- Michigan landscape and aquatic managers associations
- Michigan Agri-Business Association

LEGAL AUTHORITY:

- Pesticide Control, Natural Resources and Environmental Protection Act, PA 451 of 1994, Part 83, as amended.

Pesticide Enforcement

PROGRAM MANAGER: Molly Mott
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Pesticide-related investigations and inspections are conducted in multiple settings where pesticides are used, sold, and manufactured in the state. The Pesticide Enforcement Program protects human health and the environment by utilizing a combination of education and enforcement to promote compliance with federal laws and regulations and reduce future violations involving pesticides.

IMPACT FOR MICHIGAN:

Misuse of pesticides could result in human exposure, drift, property and crop damage, illegal residues on food crops, wildlife and pet illness or death, and impacts to the environment. Monitoring pesticide use, providing compliance assistance, and taking enforcement action when necessary to help protect the health and safety of Michigan's citizens and the environment.

Many types of pesticide-related inspections are conducted to ensure safe use, sale, and production of pesticides. Common activities include complaint investigation and spill response, agricultural and non-agricultural inspections, integrated pest management inspections in schools and daycares, state and federal marketplace product inspections, federal pesticide-producing establishment inspections, federal Worker Protection Standard compliance inspections in agricultural settings, Pesticide Notification Registry compliance inspections, and restricted use pesticide sales, licensing, and monitoring inspections.

ACCOMPLISHMENTS:

- Conducted 213 pesticide misuse investigations in FY2017 along with an additional 29 complaint investigations alleging violations.
- Conducted 1,228 compliance inspections.
- Inspected 23 pesticide producer and state marketplace locations, under EPA contract.
- Collected 258 physical pesticide samples during federal contract inspections and during complaints in FY2017.

MEASURING SUCCESS:

Metric	FY2016	FY2017
Timely Complaint Closure - within 90 days	62%	73%
Complaints Investigated	214	242
Compliance Inspections Performed	1427	1228
Inspections to Monitor Pesticide Use in Schools and Daycare facilities	102	145

PROGRAM GOALS:

- Respond to all pesticide misuse complaints within 48 hours and complete misuse investigations at the regional level within 90 calendar days.
- Inspect at least 125 schools and daycare facilities to ensure pesticides are being used appropriately.
- Conduct outreach sessions with stakeholders to ensure awareness of Michigan pesticide regulations and changes to the federal Worker Protection Standard.
- Conduct at least 80 golf course and 80 road check inspections to ensure compliance with pesticide applicator certification, licensing, recordkeeping, use, mixing, and handling regulations.
- Conduct at least 46 agricultural and non-agricultural planned pesticide use inspections to educate pesticide applicators and employers about state and federal pesticide regulations.
- Update the PPPM pesticide enforcement policy and related enforcement documents.
- Participate in Lean Process Improvement groups to develop a data management system that efficiently identifies contact history with applicators and past violations to uniformly apply enforcement responses across the state and easily extract metric and federal data reporting needs.



KEY STAKEHOLDERS:

- Agricultural producers and commodity organizations
- Michigan Agri-Business Association
- Michigan Pest Management Association
- Michigan pest management landscape and aquatic managers associations
- Public
- U.S. Environmental Protection Agency

LEGAL AUTHORITY:

- Natural Resources and Environmental Protection Act, PA 451 of 1994:
 - Part 83 Pesticide Control
 - Part 85 Fertilizers
- Regulation 636, Pesticide Applicators
- Regulation 637, Pesticide Use