



PESTICIDE AND PLANT PEST MANAGEMENT DIVISION

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LETTER FROM THE DIRECTOR

The Michigan Department of Agriculture and Rural Development's Pesticide and Plant Pest Management Division (PPPMD) is proud to present its 2018 annual report of accomplishments to our constituents and stakeholders.

PPPMD is responsible for protecting human and animal health, the environment, and domestic plant industries; and for facilitating international and interstate trade of plant-based commodities. These priority activities are key to the division's mission of fostering a diverse and viable Michigan agriculture and are essential in supporting Michigan's \$104.7 billion food and agriculture industry.

Our 90+ dedicated and well-trained staff work closely with our federal, state, local, and industry partners to perform a range of regulatory activities, including but not limited to, regulating the production, distribution, and use of pesticides, animal feeds, and fertilizer products; surveying for and responding to the detection of invasive species; inspecting nursery stock, and Christmas trees; and certifying that plants, plant products, fruits, and vegetables meet grade or phytosanitary requirements of receiving businesses, states and countries. This report illustrates the diversity of our inspection, investigation, and certification activities and highlights the many accomplishments made in 2018.

I am extremely proud of the work performed by division staff and happy to share this report. I hope you find it useful and informative.

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

PROGRAM MANAGERS: Michael Bryan and Michael Philip
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The Plant Health Certification and Export 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 \$27 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 nursery stock exports by promoting the enrollment of firms in the USDA U.S./Canada Greenhouse Program.
- Protected Michigan hemlock trees from harmful pests by intercepting quarantine-prohibited hemlock 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 5,500 export shipments, facilitating trade to 92 countries worldwide.

MEASURING SUCCESS:

Metric	2017	2018
Nursery Stock Growers Inspected	1,389	1,031
Nursery Stock Dealers Inspected	1,174	1,045
Export Certificates Issued	4,959	5,535
Christmas Tree Fields Inspected	307	292

PROGRAM GOALS:

- Expand the use of a risk-based approach to the inspection of nursery stock.
- 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.
- Complete a nursery program Lean Process Improvement project whereby all aspects of the nursery program are analyzed for efficiency and enhancement. This will eventually include revisions to the nursery and plant pest statutes and the development of a custom nursery inspection software system.



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
- U.S. Department of Agriculture - Animal and Plant Health Inspection Service

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 strives 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:

- Implementation of a coordinated statewide strategy to respond to the hemlock woolly adelgid infestations in the western Lower Peninsula.
- Engaged with the Michigan Department of Natural Resources, USDA-Forest Service, Michigan State University, and the Cooperative Invasive Species Management Areas in the hemlock woolly adelgid response.
- Educated 960 industry professionals and other members of the public on invasive/exotic pest detection and reporting.
- Issued/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 288 acres of seed potatoes valued at up to approximately \$1.15 million through extensive soil sampling for exotic cyst nematodes.

MEASURING SUCCESS:

Metric	2017	2018
Invasive Species Awareness (audience hours)	547	810
Forest, Fruit, and Field Crop Survey Sites	132	117
Emerald Ash Borer Compliance Agreements	48	48
Seed Potato Acreage Certified for Export	325	288

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
- USDA-APHIS, USDA Forest Service, MDNR, MDEQ, MSU

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 which does not meet the promised grade or condition from anywhere in the world. 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.
- Successfully completed an audit of the Fruit and Vegetable Inspection Program Branch Inspection Quality Management System. 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 one full-time inspector and one additional seasonal inspector to ensure that the needs of industry are met in a timely fashion.

MEASURING SUCCESS:

Metric	2017	2018
Market Inspections	1,097	946
Shipping Point Certificates Issued	1,375	1,353
Total Hundredweight Inspected	1,015,770	713,411
GAP/GHP Audits Performed	230	278

PROGRAM GOALS:

- Fill the F&V program manager position to enhance the program and maximize efficiencies.
- 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 ensure the management system is being followed thereby 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 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 - Agriculture Marketing Services

LEGAL AUTHORITY:

- Market Conditions, PA 91 of 1915
- Cooperative Agreement with the U.S. Department of Agriculture

AGRICHEMICAL BULK STORAGE

PROGRAM MANAGER: Mike Stoliecki
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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.
- Conducted outreach activities to inform staff, industry, and producers about on-farm fertilizer storage and poly tank integrity.

MEASURING SUCCESS:

Metric	2017	2018
Bulk Storage Facility Registrations Issued	221	223
Facilities Inspected	116	107
State Liquid Agrichemical Storage Capacity (gallons)	91 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.
- Register all bulk storage facilities electronically.



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: Mike Stoliecki
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The Fertilizer and Liming Program regulates approximately 911 manufacturers and distributors of 1.89 million tons of fertilizers, soil conditioners, and liming materials for both farm and non-farm use and assures 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 10 million acres of Michigan farmland.

Michigan producers and fertilizer 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 30 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 50 turfgrass fertilizers with “zero phosphorus” claims, 46 of which were found to be truthful. Issued stop sale violation notices to four manufacturers selling misbranded products with a false claim.
- Sampled and analyzed 252 fertilizer samples and tested for 885 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 797 fertilizer and soil conditioner facilities in Michigan and licensed 5,701 specialty fertilizers and 681 soil conditioners.



MEASURING SUCCESS:

Metric	2017	2018
Fertilizer Licenses Issued	739	797
Specialty Products Registered	6170	5701
Liming Material Licenses Issued	94	114

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:

- Natural Resources Environmental Protection Act, PA 451 of 1994, as amended:
 - Part 85 Fertilizers
 - Part 87, Groundwater
- 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 (FPIA) 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 \$1.6 billion in cash receipts for corn, dry beans, oats, soybeans, and wheat handled by Michigan's 208 licensed grain dealers (198 in-state).

Over the past 30 years, producers have lost \$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:

- On October 1, 2017, 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.
- On September 30, 2018, the Farm Produce Insurance Fund balance was \$10,755,363.
- Ongoing FPIA administrative assessments are at .00015 or 15 cents on \$1,000 of grain sold.
- In 2018, FPIA paid \$0 for producer claims from the one grain dealer failure that occurred in 2018.

MEASURING SUCCESS:

Metric	2017	2018
In-State Risked-Based Audits are Performed on a 12-month Cycle.	178	174

PROGRAM GOALS:

- Licensing programs will monitor renewal applications to assure previously licensed businesses maintain business licenses if they remain active.
- Increase the number of working capital audits through risk-based analysis approach.
- Provide support for FPIA in liquidation, claim payment, and recovery regarding financial losses to producers from grain dealer failure in central Michigan.
- Review inventory, working capital, and enforcement procedures to determine which is most efficient and effective for safeguarding and administering the \$10 million Farm Produce Insurance Fund and providing adequate producer security to Michigan producers.



KEY STAKEHOLDERS

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

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 SAFETY PROGRAM

PROGRAM MANAGER: Tim Lyons
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The goal of the Animal Feed Safety Program is to protect the animal and human food supply by assuring animal feeds and feed ingredients are safe and wholesome by ensuring feeds are produced using approved feed ingredients and additives, free of contaminants and labeled properly for the safety of animals. With 1,300 manufacturers and distributors of 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 of 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 nutritious 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 animal and pet foods.

ACCOMPLISHMENTS:

- Due to the increased awareness of animal health and food safety, the Animal Feed Safety Section became a year-round program in 2018.
- Feed Program staff received training to inspect and assist feed manufacturing firms for compliance with the Food Safety Modernization Act (FSMA).
- MDARD was awarded a grant to begin implementing Animal Food Regulatory Program Standards (AFRPS), making MDARD a partner in more consistent, fair, and predictable regulation of feed manufacturer and distributors nationwide.

MEASURING SUCCESS:

Metric	2017	2018
Good Manufacturing Practice Inspections (formerly known as sanitation inspections)	348	286
State Medicated Feed Inspections	91	94
Feed Samples	1110	1168*
Veterinary Feed Directive Inspections	56	70

*8,523 total analytes tested comprising of pathogen, nutritional, drugs, & mycotoxin analytes

PROGRAM GOALS:

- Implement and communicate any Michigan Feed Law changes and updates to stakeholders.
- Prepare Michigan's feed program and 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-round feed program to enhance the safety of the feed supply chain



KEY STAKEHOLDERS

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

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 causes adverse effects on human health or the environment beyond what is expected during EPA's pesticide registration process.

ACCOMPLISHMENTS:

- Issued 6 new, and maintained 43 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 117 state marketplace inspections on behalf of the EPA to ensure that pesticides being offered to consumers are properly labeled and registered with MDARD and the EPA.

MEASURING SUCCESS:

Metric	2017	2018
Pesticides Registered for Sale in Michigan	16,137	16,165
Marketplace Inspections Conducted	151	117
Unregistered Pesticides Found	159	706
Enforcement Actions Taken	106	317

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 MANAGER: Vacant – Pesticide Applicator Business Licensing

Antonio Castro-Escobar – Restricted Use Pesticide and Agricultural Pesticide Dealer Licensing

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Businesses applying 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. MDARD licenses and routinely inspects these businesses to ensure compliance with all applicable pesticide laws and regulations to try to protect human health and the environment.

IMPACT FOR MICHIGAN:

Misuse of pesticides has the potential to negatively affect our land and water resources and cause harm to valuable crops and human and animal health. Licensing of industries that sell, distribute, and apply pesticides for both agricultural and commercial use is a critical element in ensuring their safe use by ensuring pesticide laws and regulations are being followed. MDARD monitors the sale and use of restricted-use pesticides through licensing and monitoring inspections of these pesticide-based businesses. Businesses found not following pesticide laws risk administrative penalty and/or suspension or revocation of their licensing.

ACCOMPLISHMENTS:

- Monitored for Pesticide Application Business compliance with license requirements to assure a fair business environment and protect consumers from illegal operations.
- Monitored sales of restricted use pesticides to ensure they were only sold to certified applicators.
- Approved more than 1,300 continuing education courses, which allowed certified applicators to renew their certification credentials.
- Issued in excess of 2,300 pesticide applicator business licenses, 262 restricted use pesticide dealer licenses, and 331 agricultural pesticide dealer licenses.

MEASURING SUCCESS:

Metric	2017	2018
Unlicensed Pesticide Applicator Business Enforcement	8	0
RUP Sales Audit Inspections	24	27
RUP Sales Violation Enforcement	3	4
Recertification By Seminar Sessions Approved	1,391	1,321

PROGRAM GOALS:

- Monitor re-certification 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

- Agricultural Producers and Commodity Organizations
- Michigan Agri-Business Association
- Michigan Pest Management, Landscape, and Aquatic Associations
- Public
- U.S. Environmental Protection Agency

LEGAL AUTHORITY:

- Natural Resources and Environmental Protection Act, PA 451 of 1994, as amended:
 - Part 83 Pesticide Control
- Regulation 633, Restricted Use Pesticides
- Regulation 636, Pesticide Applicators
- Regulation 637, Pesticide Use

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 state and 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 (IPM) inspections in schools and daycares, state and federal marketplace product inspections, federal pesticide-producing establishment inspections in agricultural settings, federal Worker Protection Standard compliance inspections, Pesticide Notification Registry compliance inspections, and restricted use pesticide sales, licensing, and monitoring inspections.

ACCOMPLISHMENTS:

- Conducted 39 outreach presentations for agricultural and non-agricultural entities.
- Revised pesticide enforcement process to adhere to Act 451.
- Brought training and recordkeeping into compliance with U.S. EPA's requirements for inspecting under federal credentials.
- Inspected 21 pesticide producer and marketplace locations under EPA contract.
- Collected 327 physical pesticide samples during federal contract inspections and complaints.
- Generated an Industry Alert bulletin with the Food & Dairy Division regarding pesticidal strip misuse in food and feed establishments.

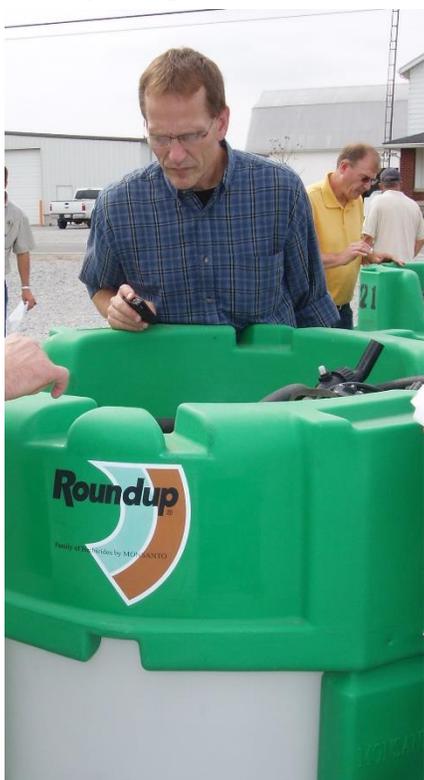


MEASURING SUCCESS:

Metric	2017	2018
Timely Complaint Closure – within 90 days	77%	52% (Qtr 3)
Complaints Investigated	242	251
Compliance Inspections Performed	1,228	1,126
Inspections to Monitor Pesticide Use in Schools and Daycare Facilities	145	140

PROGRAM GOALS:

- Send an outreach mailing regarding IPM requirements to all licensed schools in the state and inspect at least 100 schools and daycare facilities to ensure pesticides are being used appropriately.
- Conduct a minimum of 16 outreach sessions with stakeholders to ensure awareness of Michigan pesticide regulations in addition to eight presentations focusing on changes to the federal Worker Protection Standard.
- Conduct at least 22 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.
- Establish procedures for staff to respond uniformly and consistently at the regional level when violations are identified.
- Aid developers during planning meetings and testing sessions to create a new inspection and enforcement system that allows for efficient inspection reporting; tracking of contact history and past violations; uniform enforcement response to violations; and, easy extraction of metric and federal data to meet reporting needs.



KEY STAKEHOLDERS

- Agricultural producers and commodity organizations
- Michigan Agri-Business Association
- Michigan Pest Management, Landscape, and Aquatic Associations
- Public
- U.S. Environmental Protection Agency

LEGAL AUTHORITY:

- Natural Resources and Environmental Protection Act, PA 451 of 1994, as amended:
 - Part 83 Pesticide Control
 - Part 85 Fertilizers
- Regulation 633, Restricted Use Pesticides
- Regulation 636, Pesticide Applicators
- Regulation 637, Pesticide Use