



# **PESTICIDE AND PLANT PEST MANAGEMENT DIVISION**

**Michael Philip, Division Director**

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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 2019 annual report of accomplishments to our constituents and stakeholders.

PPPMD is responsible for protecting human, animal, and environmental health through the regulation of plants and plant products, animal feed, fertilizer, and pesticides. In addition, the Division fosters economic development through the certification of Michigan-grown agricultural commodities and forest products for interstate and international trade. These programs are key to promoting the interests of the residents of Michigan and supporting the state's \$104.7 billion food and agriculture industry.

I am extremely proud of the work performed by PPPMD's 91 experts, their dedication to public service, and the Division's fair and uniform regulation of the state's agricultural industries. This report illustrates the diversity of our inspection, investigation, and certification activities and highlights the many accomplishments made in 2019. I hope you find it useful and informative.

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

Michael Philip, Division Director  
Pesticide and Plant Pest Management Division

## Plant Health Certification and Export

### PROGRAM MANAGERS:

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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, 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 United States Department of Agriculture (USDA) U.S./Canada Greenhouse Program.
- Protected Michigan fir trees from harmful pests by intercepting quarantine-prohibited fir 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 4,800 export shipments, which facilitated trade to 90 countries worldwide.

## MEASURING SUCCESS:

Metric	2018	2019
Nursery Stock Growers Inspected	1,031	1,225
Nursery Stock Dealers Inspected	1,031	1,040
Export Certificates Issued	5,535	4,858
Christmas Tree Fields Inspected	292	259

## 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 analysis 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: ROBERT MILLER**

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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 one of the most diverse agricultural industries in the United States. The Port of Detroit is one of the busiest commercial border crossings 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:

- Continued implementation of a coordinated statewide strategy for identification and eradication of hemlock woolly adelgid in the western Lower Peninsula. Key partners included Michigan Department of Natural Resources, the United States Department of Agriculture-Forest Service, Michigan State University, Cooperative Invasive Species Management Areas and local governments.
- Educated 1,500 industry professionals and the public on invasive/exotic pest detection and reporting.
- Issued/maintained eight compliance agreements for the movement of hemlock woolly adelgid samples for survey identification and research.
- Facilitated the export of up to 288 acres of seed potatoes valued at approximately \$1.15 million through extensive soil sampling for exotic cyst nematodes.
- In collaboration with the USDA and Michigan State University, conducted statewide surveys for 48 exotic plant pests and pathogens not known to occur in Michigan.



## MEASURING SUCCESS:

Metric	2018	2019
Invasive Species Awareness (audience hours)	810	656
Personal Outreach Interactions	NA	1550
Forest, Fruit, and Field Crop Survey Sites	117	171
Seed Potato Acreage Certified for Export	288	288

## PROGRAM GOALS:

- Coordinate and implement a statewide strategy to detect and eradicate hemlock woolly adelgid from the four Michigan counties known to be infested.
- Respond in a rapid and efficient manner to the next exotic pest detection through development of response plans for key pests threatening Michigan’s resources. Plans are currently being developed for Asian longhorned beetle and spotted lanternfly.
- Continue to train MDARD inspection staff on exotic pests and pathways to facilitate early and accurate detection of exotic pests.
- Increase the number of citizens on the lookout for exotic pests in our forests and landscapes by educating them on exotic pest identification and reporting.
- Preserve access to foreign and domestic markets through pest survey; by demonstrating the absence of specific pests of concern.



## 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
- United States Department of Agriculture (USDA) - Animal and Plant Health Inspection Service, USDA-Forest Service, Michigan departments of Natural Resources, Environment, Great Lakes, and Energy, Michigan State University

## LEGAL AUTHORITY:

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

## FRUIT AND VEGETABLE INSPECTION

**PROGRAM MANAGER: PATRICIA BIZOUKAS**  
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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 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 facilities are also protected from receiving poor-quality produce in processed goods. The F&V inspection staff also perform GAP/GHP food safety audits verifying that Michigan produce has been produced and handled in a manner minimizing food safety concerns thereby opening markets for Michigan producers and handlers.

### ACCOMPLISHMENTS:

- Responded to requests for inspection within 12-24 hours of the request.
- Completed a Lean Process Improvement analysis on the entire F&V program, resulting in better customer service, more accurate data management, and improved billing reconciliation.
- Facilitated USDA's Food Purchase and Distribution Program (trade mitigation) by meeting the increased demand for necessary inspections in a timely manner. These purchases enabled food banks and local hunger relief agencies to provide additional food to families in need in local communities.

## MEASURING SUCCESS:

Metric	2018	2019
Market Inspections	946	1,176
Shipping Point Certificates Issued	1,353	1,834
Total Hundredweight Inspected	713,411	867,237
GAP/GHP Audits Performed	278	231

## PROGRAM GOALS:

- Implement the findings from the Lean Process Improvement analysis; including moving to an online inspection request process and development of a new data management system. Once implemented, these actions will result in better customer service.
- 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.
- Develop a training plan focused on cross-training inspection staff.
- Maintain or exceed excellent response times for market (12 hours), shipping point (24 hours) inspections, and for GAP/GHP audits that 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 United States Department of Agriculture

## Agrichemical Bulk Storage

**PROGRAM MANAGER: TIM LYONS**  
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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 consultation 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 76 million gallons of Michigan agrichemicals and ensures fertilizers and pesticides are properly identified, stored, and secured to prevent misuse and environmental discharges. The program 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	2018	2019
Bulk Storage Facility Registrations Issued	223	236
Facilities Inspected	107	121
State Liquid Agrichemical Storage Capacity (gallons)	91 Million	76 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: TIM LYONS**  
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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 rely on this program to purchase accurately labeled fertilizers, maximize yields, and maintain a profitable agricultural operation.

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 42 turfgrass fertilizers with “zero phosphorus” claims, 41 of which were found to be truthful. Issued stop sale violation notice to one manufacturer selling a misbranded product with a false claim.
- Sampled and analyzed 255 fertilizer samples and tested for 978 analytes. For analytes tested, 9.5 percent were found violative. Violation notices were sent to all retailer and manufacturer locations with violative samples.
- Licensed 625 fertilizer and soil conditioner facilities and registered 5,216 specialty fertilizers and 631 soil conditioners.

## MEASURING SUCCESS:

Metric	2018	2019
Fertilizer Licenses Issued	797	625
Specialty Products Registered	5701	5847
Liming Material Licenses Issued	114	115

## 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 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

## Animal Feed Safety Program

### PROGRAM MANAGERS:

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Michigan has about 1,400 commercial feed licensees distributing 4 million tons of commercial feed and feed ingredients. The goal of the Animal Feed Safety Program is to protect human and animal health by assuring animal feeds and feed ingredients are safe and wholesome. This is accomplished through inspection and sampling activities that ensure feeds are produced using approved feed ingredients and additives, feed is free of contaminants, and that all feed products are labeled properly. Inspectors conduct inspections of feed facilities, ensuring compliance with Current Good Manufacturing practices. Review of feed formulations (especially those containing antibiotics) and sampling of feeds, confirm compliance with state and federal regulations.

### IMPACT FOR MICHIGAN:

Michigan farms are home to an estimated 15 million livestock animals including dairy cows, beef cattle, hogs, turkeys, chickens, and sheep that are primarily raised for food. It is estimated that 55 percent of Michigan households have one or more pets who would be directly impacted during a feed safety incident. In 2019, there were 30 recalls nationwide relating to animal feed, including pet food. Feed safety incidents and recalls demonstrate the need for product surveillance, rapid response capabilities, and strong feed enforcement programs for pet food and livestock feed. The importance of safe animal feed products not only affects animals but also humans.

### ACCOMPLISHMENTS:

- The Feed Program staff worked with Food and Drug Administration, Centers for Disease Control and Prevention, MDARD's Food and Dairy Division and local health departments during the national salmonella in pig ears outbreak connected to 140 human illnesses and one pet death.
- Feed Program staff received training on the Food Safety Modernization Act's Current Good Manufacturing Practice, Hazard Analysis, and Risk-Based Preventive Controls for Food for Animals allowing inspectors to determine and assist Michigan feed manufacturers on compliance with these regulations.
- MDARD was awarded a grant in 2018 to begin implementing Animal Food Regulatory Program Standards (AFRPS). During the 18-month assessment, FDA determined the Animal Feed Safety Program was fully implemented in 7 of the 11 standards.

## MEASURING SUCCESS:

Metric	2018	2019
Current Good Manufacturing Practice Inspections	286	221
Medicated Feed Inspections	94	79
Veterinary Feed Directive Inspections	70	77
Preventative Control Inspections		1
Feed Samples	1168*	1192*

\*6,666 total analytes tested. Panel testing categories have changed since 2018.

## 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 rules; specifically, the Preventive Controls for Animal Food Rules.
- Assure market access for Michigan food and agricultural products by updating the Michigan feed law to maintain national and global consistency.
- Continued focus on feed safety through conducting risk-based inspections and the routine surveillance of feed products in commerce by sampling to determine compliance.
- Conduct outreach activities promoting animal feed safety awareness and compliance activities.



## KEY STAKEHOLDERS

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

## LEGAL AUTHORITY:

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

## Pesticide Registration

**PROGRAM MANAGER:** KEVIN KERN (Interim)  
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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 the 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 the Environmental Protection Agency's pesticide registration process.

### ACCOMPLISHMENTS:

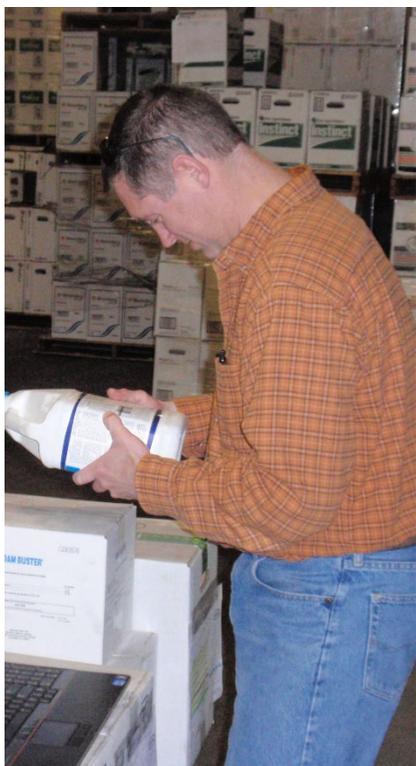
- Issued three new, and maintained 45 existing, Special Local Needs registrations to Michigan growers, giving them additional pesticide tools to protect their crops from damaging pests, including spotted wing drosophila.
- Requested three emergency use exemptions from EPA on behalf of Michigan's mint and sugar beet growers to allow expanded use of certain pesticides for a limited time during potentially devastating pest situations.
- Conducted 98 state marketplace inspections on behalf of EPA to ensure pesticides being offered to consumers are properly labeled and registered with MDARD and the EPA.

## MEASURING SUCCESS:

Metric	2018	2019
Pesticides Registered for Sale in Michigan	16,165	15,171
Marketplace Inspections Conducted	117	98
Unregistered Pesticides Found	706	552
Enforcement Actions Taken	317	287

## 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 100 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:

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

## Pesticide Business Licensing

### PROGRAM MANAGERS:

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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:

In FY19, MDARD issued 2,232 pesticide applicator business licenses, 270 restricted use pesticide dealer licenses and 340 agricultural pesticide dealer licenses. Licensing of these businesses ensures compliance with all pesticide laws and regulations are followed or risk license suspension or revocation.

### 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.
- Approval of more than 1,400 continuing education courses. These courses promote relevant educational opportunities for certified pesticide applicators and allow for renewal of required certification credentials.

## MEASURING SUCCESS:

Metric	2018	2019
Pesticide Applicator Business Licenses Reviewed		341*
Restricted Use Pesticide Sales Audit Inspections	27	32
Restricted Use Pesticide Sales Violation Enforcement	4	4
Recertification By Seminar Sessions Approved	1,321	1,419

\*New measure for 2019

## PROGRAM GOALS:

- Monitor re-certification by seminar courses to ensure course time, length, and content is appropriate and relevant to certification credit categories.
- Conduct at least 20 restricted use pesticide audits.
- Eliminate the use of bubble sheets for re-certification by seminar courses and develop an online system that applicators can use to manage their re-certification credits.
- Ensure business and individuals can legally operate in the state of Michigan 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 plant management 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

## 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 to 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. MDARD monitors pesticide use, provides compliance assistance, and takes enforcement action when necessary to help protect the health and safety of Michigan's citizens and the environment.

Types of inspections conducted include complaint investigation and spill response, agricultural and non-agricultural inspections, integrated pest management (IPM) inspections in schools and day cares, state and federal marketplace product inspections, federal pesticide-producing establishment inspections, Federal Worker Protection Standard compliance inspections, Pesticide Notification Registry compliance inspections, and restricted use pesticide sales, licensing, and monitoring inspections.

### ACCOMPLISHMENTS:

- Completed two releases of PPPM's new web-based program - Inspection, Notification, Tracking, Enforcement, and Licensing System (INTELS) following joint application development, testing, procedure generation, and training for eight pesticide inspection project types and enforcement.
- Held a federal Worker Protection Standard training for inspectors at MSU greenhouses on law revisions and meet a federal credential training requirement.
- Completed compliance assistance in the form of 102 warning letters, 12 advisory letters, and 190 stop orders. Issued 96 administrative penalties.
- Maintained federal credentials via training and recordkeeping for 10 inspectors and added four newly credentialed inspectors.
- Collected 443 physical pesticide samples during federal contract inspections and complaints.

## MEASURING SUCCESS:

Metric	2018	2019
Timely Complaint Closure - within 90 days	52% (Qtr 3)	69% (Qtr 3)
Complaints Investigated	251	234
Compliance Inspections Performed	1,126	886
Inspections to Monitor Pesticide Use in Schools and Daycare Facilities	140	85

## PROGRAM GOALS:

- Continue to utilize inspectors and program specialists as subject matter experts in completing FY2020 releases of INTELS. Releases will include nine remaining pesticide inspection types, notification and enforcement enhancements, sample collection, location functionality, and processes such as administrative case closure, record retention, FOIA requests, metric reports, federal data reporting, and more.
- Conduct a minimum of 45 outreach sessions with stakeholders to ensure awareness of Michigan pesticide regulations, which includes a minimum of 20 presentations focusing on changes to the Federal Worker Protection Standard.
- Conduct at least 25 agricultural and non-agricultural planned pesticide use inspections to educate pesticide applicators and employers regarding state and federal pesticide regulations.
- Conduct at least 12 federal pesticide producing establishment and marketplace inspections and collect at least 10 samples for formulation analysis.
- Update final components of the PPM Pesticide Enforcement Response Policy.
- Participate in a division-wide effort to overhaul methods of procedure and policy generation, approval, revision, and storage.



## 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