



Annual Report

Food and Dairy Division Fiscal Year 2015

Kevin Besey, Director

P.O. Box 30017

Lansing, MI 48909

www.michigan.gov/foodsafety

800-292-3939

MDA-FoodDairyInfo@michigan.gov



Department of
AGRICULTURE
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Michigan Department of Agriculture & Rural Development

Food and Dairy Division

Dairy Safety and Inspection Program



Manager: Barbara J. Koeltzow, 517-749-5846, koeltzowb@michigan.gov

Legal Authority: Michigan Grade A Milk Law of 2001, P.A. 266 and Manufacturing Milk Law of 2001, P.A. 267

Description of the Program:

- Michigan boasts 1,855 dairy farms, including 1,586 Grade A farms and 269 manufacturing farms, which are inspected by MDARD Dairy Section staff.
- In addition, the Dairy Safety and Inspection Program licenses and inspects 88 Michigan dairy processing plants and 38 other dairy facilities; and 1,055 milk hauler/samplers, 953 milk tank trucks, and 115 milk transportation companies.
- Enforcement is a strong component of the program. Law violations in 2015 resulted in 62 dairy farm permit suspensions and the removal of 966,347 pounds of suspect milk from the market, with an estimated dollar value of \$179,845.
- Dairy Inspectors collected and submitted 5,047 raw and finished milk and dairy product samples in 2015. 12,601 tests were performed on these samples, as required by the Pasteurized Milk Ordinance and Michigan's Grade A and Manufacturing Milk Laws. 247 violative results were found during routine monthly analysis.
- 93 Grade A Surveys were conducted on 7 single service facilities, 17 dairy processing plants, and 69 dairy farm bulk tank units (BTU) with 662 dairy farm audits completed as part of the farm BTU survey process.

Why it matters:

- Michigan's dairy industry is a leading segment of Michigan's agriculture economy, with the dairy industry contributing 26.9 percent of the total cash receipts.
- Michigan ranks 6th nationally in milk production.
- Michigan dairy farms produced approximately 9.61 billion pounds of milk in 2015.
- Michigan's dairy industry is the fastest growing, in both milk production and processing capacity, east of the Mississippi. Since 2000, milk production in Michigan has increased by 68 percent (5.705 billion pounds vs. 9.61 billion pounds).
- Michigan is one of the most efficient dairy producing states, ranking third nationally in milk production per cow at 24,638 pounds. Michigan is the only state east of the Mississippi in the top ten.
- Michigan dairy farms produce high quality milk with the third lowest somatic cell count in the nation at 167,000/ml. Michigan has the lowest somatic cell count east of the Mississippi.
- The dairy industry has an estimated \$14.68 billion economic impact on the state based on the latest study conducted in 2012. Of this total:
 - \$2.34 billion comes from dairy farming
 - \$7.97 billion comes from processing
 - \$4.37 billion comes from wholesaling and retailing

Key Stakeholders

- Dairy marketing cooperatives
- Dairy processing facilities
- Consumers of dairy products
- Michigan dairy farmers
- Artisan dairy processors
- Single service plastic/paper manufacturers
- Bulk milk haulers and milk transportation companies

Deliverables

- Building layout and processing equipment review.
- Review of labels and standard operating procedures to assure food safety compliance.
- Provide education regarding state and federal regulatory requirements.
- Connecting new business owners with the resources they need from local health departments, zoning officials and other state departments.



Accomplishments:

- MDARD’s dairy staff supported significant growth of new dairy processing plants and farms by providing highly coordinated compliance assistance, including approval of building construction and equipment installation at critical stages. This allowed businesses to meet, and often exceed, scheduled launch dates to get many value-added products to market sooner. Staff also assisted companies in working through implementation of new technologies to increase efficiencies, making Michigan more competitive globally.
 - Completed all requirements for licensing, IMS listing, and USDA certification at the new Dairy Farmers of America reverse osmosis condensing plant in Cass City.
 - Completed all requirements for USDA certification of the Michigan Milk Producers Association Butter Churn Expansion at the plant in Ovid.
 - Michigan Milk Producers Association added a separate sampling building for Appendix N testing.
 - fairlife, LLC added a third aseptic processing line with the option to use direct steam injection or steam infusion, which is the first of its kind in Michigan.
 - Continental Dairy added 4 receiving bays with a separate sampling bay for Appendix N testing and the facility is working on a butter churn expansion that will be operational in late 2016.
 - Assisted numerous small artisan cheese and ice cream makers with meeting all requirements for licensing:

<i>Fluffy Bottom Creamery</i>	<i>Grazy Valley Dairy</i>	<i>Oliver Farms</i>
<i>Uncle Bugs</i>	<i>Moonique Dairy</i>	<i>Kandyland Dairy</i>
<i>South Asian Flavors</i>		
 - 5 new large farms were permitted (over 2,000 dairy cows each) in Huron County with more than 11,000 milk cows added.
- FDD converted dairy inspection reports from a paper-based system to an electronic format in January 2015, to improve efficiency.
- Michigan offered a Hauler/Sampler Training Program at 8 locations across the Upper and Lower Peninsula in the fall of 2015.
- Michigan submitted 4 proposals to the 2015 National Conference on Interstate Milk Shipments, of which 3 were passed and received concurrence from the Food & Drug Administration’s Milk Safety Branch. These proposals were adopted into the 2015 Revision of the Pasteurized Milk Ordinance. The proposals allow for use of electronic inspection reports, addition of the term “inspection / audit report” and its definition, and clarification of Appendix N drug residue record retention requirements.

Measuring Success:

Dairy Inspection Enforcement

Metric	2011	2012	2013	2014	2015
Percentage Compliance (above 90%)	NA	89.25%	93.58%	93.8%	94.2%

The Dairy Safety and Inspection Program measures the percent of audited milk safety inspections that meet the national enforcement standards. MDARD’s goal is to maintain 100 percent compliance with national milk safety standards. Federal standards are set at 90 percent compliance.

Program Goals:

- Assure that consumers have a safe, high quality, and nutritious supply of dairy products.
- Provide programs that help maintain a strong, economically viable dairy industry.
- Ensure Michigan dairy products continue to move freely in interstate commerce.
- Participate in the development of policies and programs to further these goals.

Michigan Department of Agriculture & Rural Development

Food and Dairy Division

Food Safety and Inspection Program



Manager: Sandra Walker, Food Program Manager, 517-284-5712, walkers9@michigan.gov

Legal Authority: Michigan Food Law of 2000, Act 92, as amended

Description of the Program:

The Food Safety and Inspection Program conducts regular evaluations of grocery and convenience stores, food processors, farmers markets, temporary and fair food operations, and food warehouses, to ensure the safety of Michigan's food supply. MDARD staff performs plan reviews; conducts evaluations; processes license applications; takes enforcement actions; investigates complaints; collects food samples; and responds to fires, power outages, recalls, foodborne illness outbreaks, and other emergency situations. Food program staff continues to protect the citizens of the State of Michigan by ensuring a safe food supply. This year FSIP has reaffirmed this effort through activities such as increasing the frequency of food evaluations, reducing the time in-between scheduled evaluations, and faster response to complaint investigations.

The Food Program continues to work closely with various industry segments, such as grocers, food processors, egg producers, growers and farmers market operators, assisting owners of new and expanding businesses, giving advice and guidance on building design and processing plans to ensue safer food operations; reviewing labels and standard operating procedures to assure food safety compliance; explaining state and federal regulatory requirements; and connecting new business owners with the resources they need from local health departments, zoning officials and other state departments. We also remain committed to continued collaboration with our federal agencies such as the U.S. Food and Drug Administration and the U.S. Department of Agriculture.

In addition to conducting FDA contract evaluations, we provide registration and evaluation of bottled water manufacturers and certificates of free sale for firms exporting foods around the world.

Why it matters:

- The regulatory, compliance assistance and business development services provided by program staff assist Michigan's licensed food operations in meeting federal and state food laws, which in turn allows them to produce and sell food products in Michigan, the U.S., and internationally.
- The work of this program helps protect the safety and wholesomeness of the food supply and, in turn, the health and wellbeing of Michigan residents.

Key Stakeholders

- Consumers
- Academic Partners
- Food Industry
- U.S. Food and Drug Administration
- U.S. Department of Agriculture
- National Shellfish Sanitation Program

Key Statistics

• Licensed Establishments	19,487
• Seizures	736
• Complaint Investigations	1,279
• Total inspections conducted	14,362
- routine inspections	8,427
- follow-up inspections	2,091
- new owner	1,279
- other types	1,518
• Number of licensed establishments per inspector	424
• Product samples tested	652
• FDA Contract Inspections	401

Michigan Department of Agriculture & Rural Development

Food and Dairy Division

Food Safety and Inspection Program



Accomplishments:

- To assist companies in increasing food exports, companies must often provide a “Certificate of Free Sale” that meets the varying requirements of the countries being shipped to. This program was extensively modified to increase the speed of certificate issuance, reduce errors and help provide industry with a smoother export/import process. Certificates issued grew by nearly 37 percent (1934 to 2644) from 2012-2015.
- Food Safety Modernization Act -- A number of proposed federal rules to improve food safety are expected to provide a significant compliance challenge for Michigan’s Agriculture industry. Extensive state and national involvement by MDARD staff in coordinating industry and agency comments on proposed rules has resulted in several revised proposed rules that are expected to have a reduced overall compliance cost for Michigan Agriculture.
- To assist food establishments and customers in assuring basic food safety, with a limited inspection staff, the Food and Dairy Division established a goal to not have any food facility more than three routine inspections overdue. With no increase in staff, this minimum inspection level has almost been obtained. Establishments over three inspections overdue were reduced by 74 percent (from 1,700 to 447) in one year with goal of “0” in sight.

Measuring Success:

Metric	2012	2013	2014	2015
Food establishment compliance with MI Food Law on initial visit	NA	56%	59%	50%
Food establishment compliance with MI Food Law on follow-up visit	NA	97%	98%	96%
MDARD Compliance Rate with Manufactured Food Regulatory Program Standards (MFRPS)	5 (50%)	5 (50%)	5 (50%)	7 (70%)

The Food Safety and Inspection Program measures the level of compliance found at licensed food establishments at initial and follow-up inspections, and MDARD’s compliance with national Manufactured Food Regulatory Program Standards.

Program Goal:

Help Michigan’s food industry grow through compliance assistance; and protect public health as measured by meeting voluntary retail and manufacturing program standards.

Michigan Department of Agriculture & Rural Development

Food and Dairy Division

Quality Assurance and Emergency Response Program



Manager: Sean Dunleavy, Quality Assurance and Emergency Response Manager
517-243-8895, dunleavys@michigan.gov

Legal Authority: Michigan Food Law Act 92 of 2000, as amended
Public Health Code, Act 368 of 1978, as amended

Description of the Program:

- Integrates Food and Dairy Division’s auditing, continuous process improvement and response activities.
- Responds to and coordinates foodborne illness investigations, food recalls and tracebacks, including those identified by local, state and federal partners.
- Develops the capacity of government (local, state, federal, and tribal), private sector, and academic partners to rapidly respond to food emergencies.
- Analyzes regulatory program activities and past food emergency responses to develop, refine, and implement policies and procedures to better prevent and respond to food contamination incidents.
- Shares best practices and lessons learned with MDARD staff, response partners, and the public to improve collective food safety efforts.

Why it matters:

- Leading causative agents of foodborne outbreaks reported to MDARD in 2015 were:

Norovirus	4
<i>Salmonella</i> species.....	3
E. coli O157	1
Anisikiasis parasite infection.....	1
Shigella	1
- Reducing the burden of foodborne illness in Michigan requires consistent coordination of food safety efforts of multiple stakeholders to increase consistency and reduce duplication of effort.
- Maintaining efficient and effective government food regulatory services depends on regular review and adoption of appropriate nationally recognized best practices and lessons learned from Michigan food and dairy regulatory programs and food emergency response activities.
- Preventing foodborne illnesses combined with rapidly detection and response to contamination incidents will enable the division and our response partners to better utilize available resources to protect the health of Michigan citizens.

Key Stakeholders

- Michigan residents
- Michigan Grocers Association
- Michigan Restaurant Association
- Associated Food and Petroleum Dealers
- Michigan State University
- Local, state, and federal Public Health and regulatory agencies

Deliverables

# of foodborne illness events reported	91
# likely/confirmed foodborne illness events	25
# of illnesses caused by foodborne illness	200
# of food recalls	104
# of Traceback investigations conducted	5
Recall text/email alert subscribers	10,812

Michigan Department of Agriculture & Rural Development

Food and Dairy Division

Quality Assurance and Emergency Response Program



Accomplishments:

- Improved produce safety prevention efforts in Michigan and nationally by leading an initiative that brought the national Produce Safety Alliance's first train-the-trainer workshop to Kalamazoo Michigan in June 2015. Fifty four individuals from across the nation participated.
- Conducted active food supply sampling that detected five food contamination incidents involving a range of disease causing organisms. This led to multiple recalls that prevented human and animal illnesses in Michigan.
- Worked closely with local health department officials and federal agencies during the traceback investigation of cucumbers associated with a multi-state outbreak of *Salmonella javiana*.
- Filled key leadership roles during two Michigan Rapid Response Team (RRT) efforts that were recognized with FDA national awards in 2015. Staff also served on MDARD's Avian Influenza Incident Management Team as part of MDARD's all hazards incident response capacity.
- Improved multi-agency response capabilities by participating in multi-disciplinary and multi-agency Incident Command System (ICS) training with staff from other MDARD Divisions and FDA Detroit District Office.
- Provided technical assistance to a food processor with a complex sanitation problem. Division staff used ICS principles to organize an efficient proactive field assessment.
- Provided training in non-routine multi-jurisdictional foodborne outbreak responses in five locations around the state to 165 personnel from local, state, and federal agencies.

Measuring Success

Metric	FY 2014*	FY 2014*	FY 2015	FY 2015
Total Number of Incidents/Activities	9	% of total	7	% of total
Activity Type:				
RRT Activation	2	22.2	1	14.3
RRT Response	5	55.6	6	85.7
RRT Exercise	2	22.2	0	
Incident Type:				
Outbreaks	4	44.4	1	25
Recalls	3	33.3	3	75
Natural Disasters	1	11.1	0	
Training Exercise	2	22.2	0	
Results of Activities:				
Control Measures Implemented	4	44.4	7	100
Consumer Advisory Issued	2	22.2	5	71.4
Recall Audit Check Conducted	3	33.3	0	
*first year of tracking these metrics				

The Foodborne Illness and Emergency Response Program measures and tracks information about the type of foodborne illnesses in Michigan and the resulting response and number of activities conducted.

Program Goal:

To improve the health of Michigan citizens by reducing the burden of foodborne illness through effective and efficient government food regulatory services and food emergency responses.

Michigan Department of Agriculture & Rural Development

Food and Dairy Division

Food Service Program



Manager: Sean Dunleavy, Quality Assurance and Response Manager, 517-243-8895, dunleavys@michigan.gov

Legal Authority: Michigan Food Law of 2000, Act 92, as amended

Description of the Program:

- MDARD provides statewide program policy, direction, consultation and training services to local health department sanitarians.
- Local health departments perform plan reviews, conduct evaluations, process license applications, take enforcement actions, investigate complaints, and conduct foodborne illness outbreak investigations.
- Local health department performance is evaluated by MDARD Food Service Program Consultants every three years in conjunction with the Michigan Local Public Health Accreditation Program.
- The local health accreditation program helps to assure accountability for the nearly \$8.3 million in state funds utilized for the Food Service Program.

Why it matters:

- Our state's 45 independent local health departments are responsible for ensuring food from Michigan's restaurants, schools and hospitals is safe.
- Local health accreditation gives a clear target and clear consistent standards to enforce food safety in a seamless manner.
- This benefits industry by providing more consistency and a clear target for all involved in protecting the food supply and providing the consumer safe food.
- This also provides assistance in the food safety effort as we move toward compliance with the Food Safety and Modernization Act (FSMA) and national standardization opportunities like Public Health Accreditation Board (PHAB).

Key Stakeholders

- Consumers
- Local Health Departments
- Michigan restaurants and other food service businesses
- Michigan Restaurant Association

Key Statistics

• Fixed Licenses	37,220
• Temporary Licenses	8,498
• Mobile Licenses	391
• Vending Licenses	3,181
• Foodborne Illness Outbreaks	25
• Consumer Complaints	3,277
• Plan Reviews	3,756
• # of accredited health departments	45
• Total Evaluations Conducted	88,191

Michigan Department of Agriculture & Rural Development

Food and Dairy Division

Food Service Program



Accomplishments:

- Worked with FDA to develop and implement long-term information sharing agreements with local health departments to allow FDA confidential information during emergencies and recalls to be shared with local health partners. Michigan was the first state to develop this federal-local information sharing process. Continuing to add additional Local Health Departments.
- In conjunction with the Food Section, implemented a web-based system to track staff training and began a project to bring local health departments onto the system, in partnership with the International Food Protection and Training Institute.
- Coordinated training done by emergency management seniors to develop capacity to respond to and investigate foodborne illness outbreaks.
- Worked with Michigan Restaurant Association to do a needs assessment of specialized processing at food service establishment, in conjunction with industry, academia, and local/state regulators.
- Participated with NACCHO and CFSAN to discuss state programs with LHD and national voluntary retail program standards as part of the “elite” 9 states.

Measuring Success:

Metric	2010	2011	2012	2013	2014	2015
Number of accredited local health departments	45 (100%)	45 (100%)	45 (100%)	45 (100%)	45 (100%)	45 (100%)
Number of standardized trainers	56	57	57	58	58	58

The Food Service Program measures the number and percentage of Michigan local health departments that meet accreditation requirements and the number of standardized trainers at local health departments.

Program Goals:

- Provide expert training and consultation to the state’s 45 local health departments and districts; and provide comprehensive reviews of each LHD through informal advisement and the Michigan Accreditation Process.

Michigan Department of Agriculture & Rural Development

Food and Dairy Division

Pure Michigan FIT (non-regulatory) Programs



Manager: Lori Yelton, Nutrition Consultant, 517-420-3249, yeltonl@michigan.gov

Legal Authority P.A. 315 of 2008, Farm to School Procurement Act

Description of the Program

The Pure Michigan FIT, Food Policy and Farm to School programs encompass MDARD's efforts to partner with the agriculture industry, private businesses, health and nutrition agencies and other state departments to increase the consumption of healthy, nutritious, locally grown foods, increase access to healthy food options, promote food safety, and connect children to their agriculture roots. Specifically, the programs encourage connections with Michigan's agriculture industry to reduce obesity rates in children and families in Michigan; strive to grow Farm to Institution initiatives; and enhance economic growth for producers and processors of Michigan fruits, vegetables, and other commodities.

Why it matters:

Michigan has one of the highest obesity rates in the nation; 31 percent of adults and 17 percent of youth are obese. Obesity is about more than "just being overweight." Obesity directly impacts a person's overall health and is the root cause of many chronic illnesses, such as type 2 diabetes, cancer and heart disease. It also takes a financial toll. Obesity negatively impacts public health costs and educational outcomes.

Consuming more fruits and vegetables and other healthy foods, paired with increased physical activity, can lead to a reduction in obesity rates. Increasing the purchase of Michigan-grown agriculture products is an added benefit of encouraging the consumption of healthy foods, because it supports local farmers and their local communities, keeping farming viable in our state. MDARD supports the goals of the Michigan Good Food Charter through efforts to increase consumption of locally grown fruits and vegetables and increase access to healthy food options. Food policy efforts focus on providing an opportunity to improve state agency and stakeholder food policy coordination and implementation.

Key Stakeholders

- Farmers, food manufacturers and processors.
- Schools, day care centers, universities, restaurants and hospitals
- Pure Michigan FIT partners, Food Policy ICC member organizations, Michigan commodity and farm organizations.
- MSU Center for Regional Food Systems, Michigan departments of Community Health, Natural Resources, Education and Health and Human Services.

Key Statistics:

- # of schools participating in Farm to School (out of 845 that replied to the survey): 446
- # of partners using the PMF logo 5
- # of Pure Michigan FIT events 26

Michigan Department of Agriculture & Rural Development

Food and Dairy Division

Pure Michigan FIT (non-regulatory) Programs



Accomplishments:

- Launch of a Michigan Good Food Fund, and creation of a webinar to pipeline communications to State of Michigan departments, and other organizations. The fund is a public-private partnership loan and grant fund that finances healthy food production, distribution and retail as well as healthy food entrepreneurship in underserved communities throughout Michigan.
- Pure Michigan FIT hosted or participated at 26 events in 2015, providing activities, messaging and educational materials on Michigan agriculture, healthy eating habits, food safety and physical fitness.
- In 2015, the Farm to School survey of school food service directors through the Michigan Department of Education and the MSU Center for Regional Food Systems indicated that 446 (53 percent) of respondents currently purchase local foods.
- The Interdepartmental Collaboration Committee Food Policy group met four times in 2015, to improve state agency and stakeholder food policy coordination and implementation. Issues addressed included barriers to SNAP access and electronic equipment at farmers markets, WIC access, and other priorities set by the group.

Measuring Success:

Metric	2014	2015
Percentage of Michigan school food service programs purchasing local foods (goal: increase by 5% annually)	54%	53%
Increase number of partners using the Pure Michigan FIT logo (goal: 3)	3	5 (167%)

Program Goal:

Increase the number of Michigan residents reached through nutrition/physical fitness, food access and food safety outreach activities to help prevent and decrease obesity and other chronic diseases.