

# Michigan Department of Agriculture & Rural Development

## LABORATORY

### USDA PESTICIDE DATA PROGRAM



**Manager:** Michelle Bogner, (517) 337-5089, bognerm@michigan.gov

**Legal Authority:** Agricultural Marketing Act of 1946, 1996 U.S. Food Quality Protection Act

#### Description of the Program:

- Data has been used to facilitate U.S. exportation of a variety of agricultural products.
- Since data is used to help determine which pesticides are registered by EPA for use on food products, the tolerance levels assigned for registered pesticides on food products, and what imports FDA will test for pesticide tolerance violations; decisions made from programmatic data directly affect the general public, agricultural producers and food processors throughout the United States and internationally.
- Provides actual residue and use data necessary to make effective decisions involving the environment, food safety, and the regulation of pesticide chemicals.
- Primary objective is to collect high-quality, statistically-based data on the levels of pesticide residues in a variety of food products destined for grocery store shelves.

#### Why it matters:

- EPA uses PDP data for determining pesticide registrations and tolerance setting. Governments and the agricultural community use PDP data to examine pesticide practices and U.S. trade. PDP data have been helpful in identifying crops where alternative pest management practices are needed. PDP data are also useful in promoting export of U.S. commodities in a competitive global market and addressing food safety issues.

#### Key Stakeholders

- USDA
- U.S. FDA
- U.S. EPA
- Agriculture industry
- Consumers of agricultural products
- Michigan citizens
- Pesticide Chemical Manufacturers

#### Key Statistics

- Samples collected for testing: 1106
- Samples shipped to other states for testing: 962
- Samples tested: 1,055
- Pesticides analyzed: 215/sample
- Data points reported to USDA: >225,000
- Commodities tested: Raspberries, bananas, sweet cherries, blueberries

August 2014

# Michigan Department of Agriculture & Rural Development

## LABORATORY

### USDA PESTICIDE DATA PROGRAM



#### Accomplishments:

- Trained three newly hired staff that filled positions open through attrition
- Cross-trained two staff for added efficiencies and coverage
- Validated (proved effectiveness for providing accurate data) extraction and analysis methodology on blueberries and sweet cherries in order to replace raspberries and bananas with these new commodities per USDA's request
- Upgraded two instruments
- Moved one of the three pesticide screens to a new instrument that uses higher pressures for faster analysis time and allow lowering of levels at which pesticides can be detected and quantified
- Lowered the level at which pesticides can be detected and quantified for 27 analytes

#### Measuring Success:

Metric	2010	2011	2012	2013	2014
Average turnaround (days)	94	47	57	70	89
Satisfactory proficiency testing	100%	100%	100%	100%	100%

#### Dashboards and Scorecards:

Michigan's dashboards were implemented by Governor Rick Snyder to provide a quick assessment of the state's performance in key areas. In addition to these dashboards, agency scorecards provide transparency and accountability to Michigan taxpayers as departments work to support Michigan's comeback. The Dashboards and Scorecards can be found at [www.michigan.gov/openmichigan](http://www.michigan.gov/openmichigan).

#### Program Goals:

- Successfully complete assessment against ISO17025:2005 in 2015 to extend accreditation through April 2017
- Validate new commodity of spinach
- Report all calendar year 2014 data by March 31, 2015 in spite of staff shortages
- Improve turnaround on samples while training new staff
- Add new pesticides to current screens
- Implement new technology for lower limits of detection and more efficiency

August 2014

**Michigan Department of Agriculture & Rural Development**  
**LABORATORY**  
**PESTICIDE AND AGRICHEMICALS TESTING**



**Manager:** Michelle Bogner, (517) 337-5089, bognerm@michigan.gov

**Legal Authority:** Natural Resources and Environmental Protection Act, Public Act 451 of 1994, Part 83, Pesticide Control, Federal Insecticide, Fungicide and Rodenticide Act, 7 U.S.C. s/s 136 et seq (1996)

**Description of the Program:**

- MDARD has the responsibility of regulating the safe use of pesticides. This responsibility is supported by the Laboratory's Pesticide Section through both residue and formulations testing.
- Formulations testing verifies label claim on commercial pesticide products to prevent consumer fraud and/or misuse of pesticides.
- Residue testing includes testing of soil, foliage, water and swab wipes for evidence of the misuse of pesticides.
- This program is also called upon for testing of food products for pesticides and other toxins.

**Why it matters:**

- Pesticides are needed by the agricultural industry for higher yield of crops that are desirable to the consumer and control pests in structures that can carry disease or do extensive damage to the structure. Mis-use of pesticides poses a health risk to citizens and animals.

**Key Stakeholders**

- U.S. EPA
- Agriculture industry
- Consumers of agricultural products
- Michigan citizens
- MDNR

**Key Statistics**

- Samples tested: 151
- Samples with positive residues verifying mis-use complaints: 72%

**Michigan Department of Agriculture & Rural Development**  
**LABORATORY**  
**PESTICIDE AND AGRICHEMICALS TESTING**



**Accomplishments:**

- Improved turnaround time through staff reorganization.
- Provided supporting data for 41 pesticide regulation cases.
- Received an expanded scope on Section's accreditation to ISO 17025:2005 that includes testing methods for >95% of samples received.

**Measuring Success:**

Metric	2010	2011	2012	2013	2014
<b>Rush Mis-use Samples</b>					
Reported on time (14 days)	No data available	100%	100%	100%	100%
# Samples	No data available	20	13	56	0
<b>Total Mis-use Samples</b>					
Reported on time (60 days)	81%	98%	82%	93%	100%
Average turnaround (days)	52	35	38	29	27
# Samples	170	138	224	212	151
<b>Formulation Samples</b>					
Documentation Samples	14	7	5	9	6
Label Claim Samples	7	6	47	2	2
<b>Proficiency Testing</b>					
Mis-use satisfactory	76%	95%	100%	100%	100%
Formulation satisfactory	100%	100%	100%	67%	Data not available yet

**Dashboards and Scorecards:**

Michigan's dashboards were implemented by Governor Rick Snyder to provide a quick assessment of the state's performance in key areas. In addition to these dashboards, agency scorecards provide transparency and accountability to Michigan taxpayers as departments work to support Michigan's comeback. The Dashboards and Scorecards can be found at [www.michigan.gov/openmichigan](http://www.michigan.gov/openmichigan).

**Program Goals:**

- Successfully complete assessment against ISO17025:2005 in 2015 to extend accreditation through April 2017
- Host EPA Region 5 Pesticide Residue Laboratory Workshop in March 2015
- Improve turnaround on samples while training more new staff

August 2014

# Michigan Department of Agriculture & Rural Development

## LABORATORY

### ANIMAL DISEASE TESTING



**Manager:** Gina DeWitt, 517-337-5082, dewittg@michigan.gov

**Legal Authority:** Public Health Code, Public Act 368 of 1978, Part 124, as amended

#### Description of the Program:

- The Animal Disease Testing program provides testing in support of MDARD's efforts to monitor and eradicate livestock disease so that Michigan animals can be moved and sold throughout the U.S. and internationally.
- Provides testing to certify animals are free from specific diseases to facilitate business within the state, across the U.S., and internationally.

#### Why it matters:

- This program helps protect the livestock industry from economic losses due to animal disease transmission.
- Ensures Michigan livestock are free of specific diseases before entering the food chain to protect people, the food supply or animals.
- Facilitates the free and legal movement of livestock in Michigan.
- Facilitates the export and import of livestock.

#### Key Stakeholders

- Michigan Department of Agriculture and Rural Development Animal Industry Division
- Private Veterinarians
- USDA
- Farmers
- Producers

#### Key Statistics

- Service samples tested 24,550
- Private Veterinarians serviced 350
- 13 tests certified by USDA
- 4 analysts certified by USDA

August 2014

# Michigan Department of Agriculture & Rural Development

## LABORATORY

### ANIMAL DISEASE TESTING



#### Accomplishments:

- Technical staff cross-trained for increased efficiency.
- 100% recertification annually of all analysts for all tested diseases.
- 98% of samples completed in goal turnaround time.
- Disease free status maintained for Brucellosis, Pseudorabies, and Johne's which is critical for agricultural livestock business growth and development.

#### Measuring Success:

Metric	2009	2010	2011	2012	2013
Anaplasmosis	596	252	133	108	92
Brucellosis	2275	1995	1822	1371	652
Blue Tongue	102	68	51	23	32
Johne's	415	450	380	175	97
Pseudorabies	330	373	272	99	210
Equine Infectious Anemia	35038	25046	30396	25008	23467
Proficiency Test	100%	100%	98%	100%	100%

#### Dashboards and Scorecards:

Michigan's dashboards were implemented by Governor Rick Snyder to provide a quick assessment of the state's performance in key areas. In addition to these dashboards, agency scorecards provide transparency and accountability to Michigan taxpayers as departments work to support Michigan's comeback. The Dashboards and Scorecards can be found at [www.michigan.gov/openmichigan](http://www.michigan.gov/openmichigan).

#### Program Goals:

- 100% results on annual certification proficiency tests.
- 100% 24-hour turnaround time EIA samples.
- 100% three day turnaround time all other serology tests.
- Satisfaction Survey Private Veterinarians.

# Michigan Department of Agriculture & Rural Development

## LABORATORY

### EQUINE DRUG TESTING



**Manager:** Gina DeWitt, 517-337-5082, dewittg@michigan.gov

**Legal Authority:** P.A. 279 of 1995, Horse Racing Law

#### **Description of the Program:**

- The Equine Drug Testing section provides animal drug testing support for the Michigan Gaming Commission Board, the Fairs, Exhibitions and Racing Division, and various livestock shows in Michigan and adjoining states.
- Some of the classes of prohibited substances the laboratory looks for include stimulants, depressants, opiates, steroids, NSAIDS, bronchodilators, and “blood doping” agents such as EPO.
- The laboratory uses highly sophisticated instrumentation and rigorous methods to screen for the hundreds of potential drugs known to be used and abused in the racing industry.
- A strict “chain of custody” for samples is maintained from collection through testing
- The lab generates high quality data that will stand up to scrutiny in hearings or courts of law in the event that prohibited substances are detected.

#### **Why it matters:**

- All horse racing interests compete on a level playing field
- Increased participant confidence and revenue to the State
- Elevated consumer confidence in the integrity of the horseracing industry and fairs and exhibitions competition
- There is a reduction in the percentage of drug use on horses and livestock animals
- Improved safety in horseracing

#### **Accomplishments:**

- Technical staff cross trained
- 90% accuracy on Proficiency Testing
- 93% of samples completed in goal turnaround time

August 2014

# Michigan Department of Agriculture & Rural Development

## LABORATORY

### EQUINE DRUG TESTING



#### Measuring Success:

Metric	FY 2009	FY 2010	FY 2012	FY 2013	FY 2014
<b>RACING SAMPLES</b>					
Harness	2656	2187	1652	1638	642
Thoroughbred	792	652	493	483	254
TC02	0	0	1875	2343	1038
Positives	17	12	39	22	9
<b>FAIR SAMPLES</b>	490	286	114	237	161
FAIR POSITIVES	4	2	2	2	3
<b>Livestock samples</b>	83	89	89	74	90
Livestock Positive	1	1	3	4	6
Negative Samples Reported on Time (2 days)	95%	95%	95%	90%	93%
Positive Samples Reported on Time (5-7 days)	95%	95%	95%	92%	95%

#### Dashboards and Scorecards:

Michigan's dashboards were implemented by Governor Rick Snyder to provide a quick assessment of the state's performance in key areas. In addition to these dashboards, agency scorecards provide transparency and accountability to Michigan taxpayers as departments work to support Michigan's comeback. The Dashboards and Scorecards can be found at [www.michigan.gov/openmichigan](http://www.michigan.gov/openmichigan).

#### Program Goals:

- ISO17025:2005 accreditation
- Obtain cutting edge instrumentation
- Train Scientist back-up for cross utilization

#### Key Stakeholders

- Michigan Gaming Control Board
- Michigan citizens
- Michigan county fairs
- Michigan public livestock exhibitions

#### Key Statistics

- Total Samples 2,185
- Total Tests Performed 25,000
- Fairs Submitting Racing Samples 11
- Fairs Submitting Livestock Samples 17

August 2014

# Michigan Department of Agriculture & Rural Development

## Laboratory Division

### Feed Safety Program



**Manager:** Mark Stenske, 517-203-1385, Stenskem@michigan.gov

**Legal Authority:** Michigan Food Law of 2000, Michigan Commercial Feed Law, Act 120 of 1975, Section 287.527; Michigan Liquor Control Code of 1998, Act 58 of 1998.

#### **Description of the Program:**

- The section supports animal and human food safety/security and consumer protection by providing analytical data and technical expertise to document the safety, legality, authenticity, identity and quality of human food, animal feed, alcoholic and non-alcoholic beverages offered for sale within the State of Michigan. The section also provides analytical data to the Michigan Liquor Control Commission (MLCC) for enforcement of under-age drinking laws and detection of adulteration of distilled liquor.

#### **Why it matters:**

- Drugs and other additives when misapplied can negatively impact animal and human health, livestock animal productivity and marketability of food products by businesses.
- The data generated assists MDARD, FDA and MLCC monitoring and enforcement activities related to food and feed safety.
- Laboratory test data is required establish an integrated food safety system. Standard 10 of the Manufactured Food Regulatory Program Standard requires the use of a laboratory that meets the requirements of the international ISO17025:2005 Laboratory Quality Standard.
- Consumer, livestock and pet health are directly impacted by the safety and wholesomeness of the food supply.
- The food supply is vulnerable to intentional tampering and adulteration. Testing is necessary in many cases to identify those contaminants to minimize impacts and provide evidence for legal action.

#### **Dashboards and Scorecards:**

- Performance on proficiency test samples
- Turn-around time of sample analysis

August 2014



**Accomplishments:**

- Provided timely laboratory response to a multi-state, multi-agency feed contamination that resulted in protection of the food supply and limiting the impact on animal deaths and economic losses to the poultry and swine industry.
- Provided testing on imported food products for the presence of filth and harmful contaminants
- Completion of an ISO17025:2005 compliant quality system which provides assurance of effective laboratory operations compliant to international standards.
- Participation in national and international laboratory technical and training committees - This is directly related to the establishment of recognized and standardized analytical test methods. The materials created by the training committees fill a national need for knowledge development in the areas of laboratory accreditation and specialized analytical techniques. Both are essential elements in achieving a national integrated food safety system.

**Measuring Success:**

Metric	2010	2011	2012	2013	2014
Samples Tested	1,532	1,578	685	587	578
Tests Performed	3,747	2,943	2,308	1,951	1,209
% of Proficiency Samples Completed Successfully	100%	93%	93%	100%	100%

**Key Stakeholders**

- MDARD – PPPM
- FDA
- USDA
- Pet owners
- Livestock operations
- Feed manufacturers and distributors

**Key Statistics**

- Samples completed
- Accuracy of proficiency sample testing

# Michigan Department of Agriculture & Rural Development

## LABORATORY

### MOTOR FUEL QUALITY TESTING



**Manager:** Gina DeWitt, 517-337-5082, dewittg@michigan.gov

**Legal Authority:** P.A. 44 of 1984, as amended, Michigan Motor Fuels Quality Act

#### **Description of the Program:**

- The Motor Fuels Quality Program monitors and verifies the standards that all gasoline must meet to protect businesses and consumers from economic harm caused by costly engine repairs from sub-standard gasoline as it relates to its anti-knock components and water.
- The Laboratory tests motor fuel to ensure product description accuracy and quality and adherence to the quality standards.
- The laboratory verifies the components in the gasoline as to proper percentage of each component and verifies the vapor pressure in order to ensure minimal loss of product to the atmosphere while ensuring optimal formulation for use in automobiles.
- In addition to verification of the quality of the gasoline, the laboratory also verifies the gasoline meets the advertised octane rating.

#### **Why it matters:**

- In certain high population/automobile use areas, components of gasoline sold in these areas are monitored by the lab to prevent over 28 tons of pollutants per day from being released into the atmosphere. This program benefits people living in these areas by reducing health risks caused by the inhalation of gasoline vapors and/or smog created from the vapors.
- To protect businesses and consumers from economic harm caused by costly engine repairs from substandard gasoline as it relates to its anti-knock components and water.

#### **Accomplishments:**

- Technical staff cross trained to provide back-up and eliminate the need to hire additional staff who are only trained in limited specialties.
- 99% accuracy on monthly check sample testing
- 92% of samples completed in goal turnaround time

# Michigan Department of Agriculture & Rural Development

## LABORATORY

### MOTOR FUEL QUALITY TESTING



#### Measuring Success:

Metric	FY 2012	FY 2013	FY 2014
Gasoline	2,309	2,454	2,747
Low vapor pressure testing	560	520	536
Diesel	25	40	42
E-85	0	3	3
Violation samples	160	108	91
Check Sample Scores Avg	94%	95%	99%
Reported on Time (2 weeks)	40%	80%	90%

#### Dashboards and Scorecards:

Michigan's dashboards were implemented by Governor Rick Snyder to provide a quick assessment of the state's performance in key areas. In addition to these dashboards, agency scorecards provide transparency and accountability to Michigan taxpayers as departments work to support Michigan's comeback. The Dashboards and Scorecards can be found at [www.michigan.gov/openmichigan](http://www.michigan.gov/openmichigan).

#### Program Goals:

- 100% results on Monthly check samples
- 90% turnaround time within 14 days

#### Key Stakeholders

- Michigan fuel businesses
- Michigan citizens

#### Key Statistics

- Samples Tested 3,374
- Sample Tests performed 20,100
- Sample Test Violations 91
- Turnaround time goal met 90%

August 2014

# Michigan Department of Agriculture & Rural Development

## LABORATORY DIVISION

### FEDERAL GRANTS and COOPERATIVE AGREEMENTS



**Manager:** Ted Gatesy, 517-203-1384, gatesyt@michigan.gov

**Legal Authority:** PA 92 of 2000, Michigan Food Law  
PA 120 of 1975, Michigan Feed Law

#### Description of the Program:

- FDA and USDA Food Emergency Response Network (FERN): FERN comprises federal, state and local regulatory laboratories intended to expand and improve the capacity for surveillance and outbreak response of foodborne pathogen and threat agent testing.
- FDA Environmental Sampling and Imports: Through a contract with FDA, MDARD tests environmental samples for pathogens, taken during inspections of Michigan food production facilities. Through this same contract, import samples are routinely collected during surveillance sampling at retail establishments and tested for foodborne pathogens.
- Pet food and livestock feed ingredients and finished feed are tested for foodborne pathogens to monitor compliance with safety requirements of the Michigan Feed Law through the Feed Safety Monitoring Enhancement Cooperative Agreement.
- The FDA ISO Grant is intended to obtain, maintain, and enhance the laboratory's scope of ISO17025:2005 accreditation by actively participating in FERN, successfully participate in proficiency testing (PT) programs, and achieve conformance with Standard 10 of the Manufactured Food Regulatory Program Standards (MFRPS).

#### Why it matters:

- Preparedness for a foodborne outbreak or bacterial agent threat is essentially important in reducing or eliminating illness or death from food sources. The FERN Program provides validated test methods and surge capacity in laboratories across the U.S.
- Clean food processing equipment and facilities significantly reduce the risk of processed food becoming contaminated with illness causing pathogens.
- Surveillance sampling and testing of food products and ingredients, whether produced in the U.S. or entering the U.S. as an import to the U.S., are necessary to reduce foodborne illness in the U.S., by preventing contaminated food from entering our food commerce.
- Accreditation of laboratories helps to insure proper test methods are performed by trained personnel, producing accurate and timely results.

January 2015



#### Key Stakeholders

- Food and pet food processors in Michigan
- Food and pet food retailers in Michigan
- FDA
- USDA
- Citizens of Michigan

#### Deliverables

- Continued ISO17025:2005 accreditation through August 2015
- Conformance with MFRPS Standard 10
- FERN method validation and successful PT
- 1,194 environmental samples tested
- 135 tests performed on 56 Import samples

#### Accomplishments:

- *Listeria monocytogenes* was recovered from imported flour sample and imported collard greens by MDARD's microbiology laboratory. By MDARD's recovery of this pathogenic organism from these import products, FDA was able to prevent contaminated food ingredients from entering the United States, preventing potential human illness in Michigan and surrounding states. These findings protected distributors and retailers in Michigan from potential lawsuits and/or recalls due to possible human illness resulting directly from their distribution of these products.
- MDARD's environmental sampling in food processing facilities is designed to determine the cleanliness of the facilities and equipment. In FY14, MDARD's expert laboratory staff discovered *Listeria monocytogenes* at two separate facilities. This played an important role in preventing potentially contaminated food from entering retail markets, prevented potential human foodborne illnesses and provided the food processors significant reason to thoroughly clean their facilities. Finding and eliminating these pathogens from their facilities reduced product loss and possible human illness associated with their products. Of the 1000 samples collected from 10 food processing facilities, eight facilities had no positive environmental samples, while the two aforementioned facilities had three and 13 samples positive for *Listeria monocytogenes*, respectively.

**Michigan Department of Agriculture & Rural Development**  
**LABORATORY DIVISION**  
**FEDERAL GRANTS and COOPERATIVE AGREEMENTS**



**Measuring Success:**

Metric	2010	2011	2012	2013	2014
<b>FERN</b>					
PT	100.0%	100.0%	100.0%	100.0%	100.0%
<b>Imports and Environmental</b>					
PT	100.0%	100.0%	100.0%	98.6%	100.0%
TAT	NA	NA	100.0%	100.0%	100.0%
<b>Feed Safety</b>					
PT			100.0%	98.6%	100.0%
TAT	NA	NA	NA	100.0%	83.4%

PT = Proficiency Test Results

TAT = Turn Around Time within 10 Working Days

**Dashboards and Scorecards:**

Michigan’s dashboards were implemented by Governor Rick Snyder to provide a quick assessment of the state’s performance in key areas. In addition to these dashboards, agency scorecards provide transparency and accountability to Michigan taxpayers as departments work to support Michigan’s comeback. The Dashboards and Scorecards can be found at [www.michigan.gov/openmichigan](http://www.michigan.gov/openmichigan).

**Program Goals:**

- Maintain ISO17025:2005 accreditation through successfully completing all PTs and continued review and/or revision of the Microbiology section’s Quality Manual and Standard Operating Procedures (SOPs)
- Improve the sensitivity and specificity of Salmonella and Listeria screening tests by moving them from antibody based tests to DNA based platforms.

**Michigan Department of Agriculture & Rural Development**  
**LABORATORY DIVISION**  
**FOOD and DAIRY MICROBIOLOGY**



**Manager:** Ted Gatesy, 517-203-1384, GatesyT@michigan.gov

**Legal Authority:** PA 92 of 2000, Michigan Food Law PA 266 of 2000, modified in 2009, and Grade “A” Milk Law Grade “A” Pasteurized Milk Ordinance (PMO), 2009 revision

**Description of the Program:**

- Grade “A” Dairy Products, Manufactured Dairy Products and Coliforms in Glycol Waters provide analytical data to the Food and Dairy Division to enforce the Michigan Grade “A” Dairy Law, the Michigan Manufactured Milk Act and the Michigan Dairy Laws of 2007 as it pertains to glycol and other dairy waters, except well waters, respectively. Recurring testing of these products from Michigan Dairies provides documentation to the dairies to as the safety and cleanliness of their products and processes.
- The Grade “A” PMO is designed to protect and improve the nation’s milk supply through continued monitoring from production through distribution, including laboratory testing for bacterial counts, somatic cell counts, phosphatase enzyme production and inhibitory substances, i.e., antibiotics.
- Food Pathogen Programs, including pathogens in “Ready to Eat” foods and Michigan’s Food Assurance Program, provide analytical data to the Food and Dairy Division, in support of its enforcement of the Michigan Food Law of 2000.

**Why it matters:**

- Food safety and economic interests of the people of the State of Michigan are two of the top MDARD missions. Detection of pathogens in food is an important step in removal of contaminated products from commerce and consequently eliminates sources of potential illnesses. Production of safe food and dairy products by Michigan manufacturers will insure continued sales of Michigan agricultural products within the state, across the nation, and through exports.

**Key Stakeholders**

- Dairy and food farmers and growers, producers, manufacturers, distributors and retail food and dairy establishments.
- Citizens of, and visitors to, the State of Michigan.
- FDA’s Food Safety and Inspection Service
- MDARD’s Food and Dairy Division

**Deliverables**

- 12,603 tests performed on 4,995 dairy samples with 277 violations
- 846 pathogen tests performed on 538 fresh produce samples
- 2,826 pathogen tests performed on 1,962 ready to eat food samples

January 2015

**Michigan Department of Agriculture & Rural Development**  
**LABORATORY DIVISION**  
**FOOD and DAIRY MICROBIOLOGY**



**Accomplishments:**

- The recovery of *Listeria monocytogenes* from a ready to eat chicken salad lead to a recall of more than 92,000 pounds of product, equating to nearly 200,000 meals. CDC estimates that 1600 illnesses and 260 deaths occur annually in the United States due to *L. monocytogenes*, primarily affecting pregnant women, infants, the elderly and immuno-suppressed. The finding of this pathogen in food by the MDARD microbiology laboratory as part of MDARD’s Food Pathogen Testing Program and the removal from commerce of this contaminated product prevented a potentially serious and potentially deadly foodborne outbreak.

**Measuring Success:**

Metric	2010	2011	2012	2013	2014
<b>Food</b>					
PT	100.0%	100.0%	100.0%	98.6%	100.0%
TAT	NA	NA	98.2%	93.4%	97.8%
<b>Food Assurance</b>					
PT	NA	NA	NA	100.0%	100.00
TAT	NA	NA	NA	88.0%	92.0%
<b>Dairy</b>					
PT	100.0%	100.0%	100.0%	100.0%	100.0%
TAT	97.6%	99.9%	99.9%	99.9%	99.6%

PT = Proficiency Test Results

TAT = Turn Around Time within 10 Working Days

**Dashboards and Scorecards:**

Michigan’s dashboards were implemented by Governor Rick Snyder to provide a quick assessment of the state’s performance in key areas. In addition to these dashboards, agency scorecards provide transparency and accountability to Michigan taxpayers as departments work to support Michigan’s comeback. The Dashboards and Scorecards can be found at [www.michigan.gov/openmichigan](http://www.michigan.gov/openmichigan).

**Program Goals:**

- The dairy microbiology laboratory is expecting a significant increase in samples for FY2015 due to new plants coming on line, along with preparations for testing possible additional prohibitive substances in FY2016.
- Food microbiology is planning to move Salmonella and Listeria testing from antibody based tests to DNA based platforms. This move will improve the sensitivity and specificity of the tests and provide a 24 hours faster screening time for Salmonella testing.

January 2015