



# **ANIMAL INDUSTRY DIVISION**

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## LETTER FROM THE DIRECTOR

As State Veterinarian and Division Director of the Michigan Department of Agriculture and Rural Development's Animal Industry Division, my staff and I take great pride in protecting, regulating and promoting animal health in Michigan on a daily basis. This past year, AID has worked efficiently and effectively to meet our mission by responding to animal diseases, preparing for animal health emergencies, and creating outreach on the many facets of animal health regulations.

Through collaborative efforts with stakeholders, state and federal government we have accomplished many great things in 2016. Below are three highlights of our efforts to protect, regulate, and promote animal health:

- AID doubled our annual bovine TB testing for 2016 as we tested an additional 21,913 cattle. Each year we test approximately 22,000 head of cattle in our TB endemic area of northeast Michigan. This year we did our normal work and tested the additional 21,913 due to a bovine TB infected herd being found in Texas and some cattle, prior to infection, were sold to Michigan producers.
- Worked to enhance the quality of life for Flint residents by assuring the health and safety of their pets. MDARD provided Flint pet owners with educational materials and paid for lead testing of pets. A total of 351 tests were conducted.
- Ensured human health when responding to influenza H3N2 in over 40 pigs at three different county fairs. There were 12 known human cases of this virus. AID's quick response and coordination in outreach and education with other agencies mitigated the risk of additional human cases.

The following pages summarize our activities and accomplishments for 2016. Division staff has done an outstanding job this past year to protect, regulate and promote animal health and I am happy to share our story with you.

James Averill, DVM, PhD  
State Veterinarian and Division Director  
Animal Industry Division

# ANIMAL INDUSTRY DIVISION



## ANIMAL CONTROL

**PROGRAM MANAGER:** POLLYANNE MCKILLOP | 517-284-5682 | [kapalap@michigan.gov](mailto:kapalap@michigan.gov)

MDARD's Animal Control Program works with local animal control to provide guidance and education on animal health issues and state regulations.

Animal control, along with local law enforcement, are entrusted to enforce a number of animal laws concerning public safety and animal welfare. Most, but not all counties, have animal control agencies and some local governmental units do as well. These officers enforce laws related to dog licensing, inspection of kennels, stray dogs and animals running at large. Animal control agencies investigate state anti-cruelty violations, animals running at large, and animals that are exotic or dangerous.

### IMPACT FOR MICHIGAN:

The Dog Law of 1919 protects both public health and livestock. It provides guidance for dogs being vaccinated for rabies, a fatal disease that also affects humans, and for livestock owners seeking compensation for damage to livestock caused by dogs. MDARD serves as a resource and partners with animal control and local law enforcement to advocate for animal control and update their agencies on various state animal programs.

### ACCOMPLISHMENTS:

- Developed working group to review and update the 100 hour minimum training requirement called for in the Dog Law of 1919.
- Provided training guidance for those interested in becoming an animal control officer.

## MEASURING SUCCESS:

Metric	2015	2016
Ride-along request with AID field staff completed	100%	100%
Training reviews completed	100%	100%

## PROGRAM GOALS:

- Revise the animal control web page to better address inquiries from persons interested in going into the animal control profession.
- In partnership with the Michigan Association of Animal Control Officers, prescribe an updated 100 hour minimum course of training topics to address the current and emerging issues with animal law enforcement, public safety and animal welfare.
- Develop new request forms and training log templates to compliment the revised curriculum to improve efficiencies and timeliness.



### KEY STAKEHOLDERS

- Michigan Association of Animal Control Officers
- Michigan's counties, cities, villages, townships and other local units of government
- Michigan Partnership for Animal Welfare
- Michigan Veterinary Medical Association

### LEGAL AUTHORITY:

- Act 287, PA 1969 as amended
- Regulation 151
- Act 339, PA 1919 Dog Law of 1919
- Act 309, PA 1939

# ANIMAL INDUSTRY DIVISION



## ANIMAL DISEASE TRACEABILITY

**PROGRAM MANAGER:** Theresa Drysdale, D.V.M. | 517-284-5791 | [DrysdaleT@michigan.gov](mailto:DrysdaleT@michigan.gov)

The Animal Disease Traceability Program gathers and stores searchable data on livestock identification. This allows for rapid responses to stop outbreaks of reportable animal diseases. Collected data includes physical locations and dates of animal movements, unique animal identification numbers and animal health records. Additionally, this information can help investigators identify the source of a disease and determine which other animals may have been exposed. ADT is a cooperative program administered by the United States Department of Agriculture.

### IMPACT FOR MICHIGAN:

By facilitating the prompt identification and tracking of animals, the ADT Program safeguards Michigan's citizens from the potential effects an animal health crisis. Animal disease outbreaks can affect the continuity of agricultural business and consequently, Michigan's economy. Additionally, some disease may potentially impact human health. By identifying and tracking animals, this program not only protects the economy but ensures public health.

### ACCOMPLISHMENTS:

- The voluntary registration of more than 500 existing cattle premises locations in Michigan occurred as a direct result of new AID enforcement procedures for a federal ADT regulation.
- Efficient computer process developed which automated the transfer of cattle tag sales data from livestock markets into the state ADT database.
- A handbook for Michigan's accredited veterinarians was drafted in cooperation with the USDA to detail the responsibilities and requirements when working in Michigan.

## MEASURING SUCCESS:

Metric	2014	2015	2016
Compliant Interstate Certificates of Veterinary Inspection issued in Michigan	N/A	89%	91%
Average accuracy read-rate for electronic tag readers installed at livestock auction markets	64%	82%	86%

## PROGRAM GOALS:

- Improve quality of data entered into the animal disease traceability database through standardization, training and heightened management.
- Update the departmental website with clear requirements to move animals into or out of Michigan.
- Conduct outreach activities to educate and assist livestock dealers, producers, veterinary professionals and other stakeholders on animal disease traceability issues.
- Continue cooperative efforts with the USDA to enhance monitoring of Michigan livestock markets, animal exhibitions and slaughter plants for compliance with state and federal animal movement requirements.



### KEY STAKEHOLDERS

- USDA
- Centers for Disease Control and Prevention
- Accredited Veterinarians
- Michigan Department of Health and Human Services
- Michigan Department of Natural Resources

### LEGAL AUTHORITY:

- Public Act 466 of 1988, as amended, the Animal Industry Act
- Cooperative Agreement with USDA

# ANIMAL INDUSTRY DIVISION

## ANIMAL SHELTERS

**PROGRAM MANAGER: POLLYANNE MCKILLOP**  
517-284-5682 | kapalap@michigan.gov

The Animal Industry Division's Shelter Program is responsible for registering animal shelters; including both animal control shelters which are municipal, open admission shelters and animal protection shelters which are closed admission facilities typically operated by private, mostly non-profit organizations. Animal Shelter Program staff work with shelters to provide guidance and education on animal health issues and state regulations.

### **IMPACT FOR MICHIGAN:**

Animal shelters provide care to animals needing protection, as well as a place for lost pets to be reunited with their families. Surrendered or abandoned animals have a second chance with shelter programs facilitating their adoption into new homes. Animal shelters may even provide a safe, humane holding facility for animals involved in criminal cases. Additionally, animal shelters help control unwanted animals in communities by encouraging and many times offering low-cost spay neuter programs.

Situated in the communities they serve, animal shelters partner with law enforcement agencies, animal advocacy groups, veterinarians and animal behavior specialists, to ensure a safe community with its animals and roles they play in people's lives.

### **ACCOMPLISHMENTS:**

- The Animal Shelter Program Completed a Lean Process Improvement event.
- New legislation passed late in 2016, updating importation requirements for dogs and cats coming to Michigan from other states.

## MEASURING SUCCESS:

Metric	2015	2016
Registered shelters not requiring a follow-up for corrections or improvements (new metric – target 70%)	-	72%
Registered shelters inspected annually (target 100%)	86%	96%
Shelters reporting their annual statistics	82%	91%

## PROGRAM GOALS:

- Implement recommendations from the Lean Process Improvement effort, including designing a transparent point-based inspection system that better measures compliance with critical program areas in 2017.
- In 2017, develop and utilize an electronic newsletter for timely, relevant information on animal shelters issues available to the regulated community, its partners and our stakeholders.
- Administer an Animal Welfare Grant process in 2017, which will increase the number of shelter animals being spayed/neutered prior to adoption, provide needed education and training regarding proper animal care, and offer funding for animals ordered to be held at a shelter as evidence for court cases.



### KEY STAKEHOLDERS

- Michigan Association of Animal Control Officers
- Michigan's counties, cities, villages, townships and other local units of government
- Michigan Partnership for Animal Welfare
- Michigan Veterinary Medical Association

### LEGAL AUTHORITY:

- Act 287, PA 1969 as amended
- Regulation 151
- Act 339, PA 1919 Dog Law of 1919
- Act 309, PA 1939
- Act 132, PA 20Animal Welfare Fund Act



## AQUACULTURE

**PROGRAM MANAGER:** Steve Hussey DVM | 517-284-5685 | [Husseys@michigan.gov](mailto:Husseys@michigan.gov)

The Aquaculture Program manages the registration and regulation of aquaculture facilities and serves to protect and promote the aquaculture industry through addressing issues of fish health, environmental protection and industry needs. This includes pre-licensing inspections, routine annual inspections, and response to reports of escapement or disease in aquaculture facilities. In collaboration with the Michigan Department of Natural Resources, the program oversees issuing of all prior-entry import permits including permits for baitfish and other aquaculture intended for the stocking of public waters. Additionally the program works with the other state agencies to prevent and control aquatic invasive species in the Great Lakes area.

### IMPACT FOR MICHIGAN:

Estimates show that within the next 35 years, the world will need twice as much food to sustain a growing world population. The United States currently imports more than 90 percent of the seafood consumed in America. This offers a considerable market opportunity for domestically raised fish. Michigan's abundant water resources and diverse agricultural base make our state uniquely positioned to capitalize on this opportunity and meet the protein needs of the world.

### ACCOMPLISHMENTS:

- Created and revised four standard operating procedures regarding inspection, licensing and fish import.
- Five disease investigations were completed.
- AID collaborated with DNR to effectively investigate and respond to an occurrence of viral hemorrhagic septicemia in a retail bait shop.
- 620 percent increase in inspected aquaculture facilities.

## MEASURING SUCCESS:

Metric	2015	2016
Licensed facilities inspected	5	31
New facilities licensed	3	5

## PROGRAM GOALS:

- Complete inspections of all registered aquaculture facilities on a bi-annual basis.
- Protect the aquatic health of public and private waters and meet the importation needs of the aquaculture and baitfish industry by issuing prior-entry import permits in a timely and accurate way.
- Promote the expansion of the aquaculture industry by working with the other state agencies to develop the tools and educational resources necessary to facilitate new registrations.
- Work with key stakeholders to develop and promote fish health and invasive species training opportunities, including increasing the number of aquaculture veterinarians.
- Collaborate with other state agencies to meet the goals of the Invasive Species State Management Plans, including the Michigan Invasive Species Grant Program.



## KEY STAKEHOLDERS

- Michigan Aquaculture Association
- Quality of Life Agencies (Departments of Environmental Quality, Agriculture and Rural Development and Natural Resources)
- Michigan State University
- Michigan Sea Grant
- Aquaculture Producers

## LEGAL AUTHORITY:

- Michigan Aquaculture Development Act, 1996 PA 199
- Animal Industry Act, 1988 PA 466 as amended

# ANIMAL INDUSTRY DIVISION



## BOVINE TUBERCULOSIS

**PROGRAM MANAGER:** Dr. Richard W. Smith | 517-284-5689 | [smithr29@michigan.gov](mailto:smithr29@michigan.gov)

The Michigan Bovine Tuberculosis Program is required under federal law in order for Michigan cattle farmers to participate in interstate commerce of animals. The Michigan bovine TB program prevents farm-to-farm transmission of bovine TB and provides access to national and international markets. The program performs herd surveillance testing and works with producer to implement on-farm practices to mitigate the risk of deer to cattle transmission of bovine TB.

### **IMPACT FOR MICHIGAN:**

Bovine TB, worldwide, has economic and human health implications and is of interest to farmers, commodity organizations, hunters and the federal government. There are more than 13,000 cattle farmers in Michigan who maintain over 1.1 million cattle each year and other states would potentially close their markets to Michigan cattle, meat and milk products if the program were reduced or eliminated. The 66 dairy producers located within the Modified Accredited Zone (MAZ) are able to sell Grade A milk because of the program we have in place.

Michigan's citizens are protected from exposure to the TB organism as a result of the Bovine TB Eradication Program. Additionally, Michigan's citizens are protected from exposure to the bovine TB organism as a result of the AID's Bovine TB Program.

### **ACCOMPLISHMENTS:**

- Hosted a successful, producer-orientated bovine TB conference in Hillman, Michigan.
- New Memorandum of Understanding, signed on May 19, 2016 with the United States Department of Agriculture.
- New Bovine TB Zoning Order signed on June 7, 2016.
- Responded to all incidents of bovine TB found in cattle.
- Continued to develop the Enhanced Wildlife Risk Mitigation project.

## MEASURING SUCCESS:

Metric	2015	2016
Michigan counties at TB Free status	95%	95%
Active commercial herds with WRM Verified status	92%	88%
Herds in core bovine TB area that received the Enhanced WRM assessment (out of 120 herds)	2.5%	14%
MAZ herds tested on time (new metric)	-	95%
Accredited Free Zone herds tested on time (new metric)	-	100%

## PROGRAM GOALS:

- Negotiate a new MOU between the Michigan Departments of Agriculture and Rural Development and Natural Resources and USDA.
- Write a new Zoning Order in order to implement the new MOU.
- Complete TB testing required in present MOU.
- Complete Enhanced Wildlife Risk Mitigation inspections on remaining core bovine TB area at-risk-farms.
- Move 100 percent of Michigan counties back to TB Free Status.



### KEY STAKEHOLDERS

- Michigan Farm Bureau
- Michigan Milk Producers Association
- Michigan Cattlemen’s Association
- Michigan Department of Natural Resources
- USDA Animal and Plant Health Inspection Service Veterinary Services

### LEGAL AUTHORITY:

- Public Act 466 as Amended
- CFR 9, Part 77
- Uniform Methods & Rules 2005

# ANIMAL INDUSTRY DIVISION

## CERVID

**PROGRAM MANAGER:** Cheryl Collins, D.V.M.  
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Raising deer and elk in captivity is jointly regulated by the Michigan Department of Natural Resources and the Michigan Department of Agriculture and Rural Development. MDARD AID manages the animal health components of farmed deer and elk, including programs for Chronic Wasting Disease and bovine tuberculosis.

### IMPACT FOR MICHIGAN:

Raising deer and elk for breeding, meat production, private hunting, animal watching and specialty products helps to ensure a prosperous economy and creates more jobs. Michigan's deer farming industry ranks third in the nation in number of farms. The deer farming industry continues to grow, as 43 percent of farms have been created in the last decade. Additionally, maintaining healthy farmed deer and elk is critical to protecting the health status of the free-ranging population of white-tailed deer and elk in Michigan. Disease surveillance programs can lead to early detection of infected individuals and prevent the spread of disease, and strong herd certification and accreditation programs protect our trade status with other states.

### ACCOMPLISHMENTS:

- Substantially improved turnaround time for disease program certificates for participants.
- Implemented prompt submission of CWD samples.
- Provided feedback to all herds in the state on the quantity and quality of CWD samples submitted.
- Provided feedback to veterinarians on the quantity and quality of CWD samples submitted.

## MEASURING SUCCESS:

Metric	2015	2016
Average number of days to process CWD Certification	162	39
Average number of days to process TB Accreditation	197	32
Number of deer and elk imported into Michigan	16	14

## PROGRAM GOALS:

- Maintain Approved State status in the United States Department of Agriculture’s CWD Herd Certification Program.
- Efficiently manage the herd inventories and certification processes for the cervid disease surveillance programs.
- Utilize input from industry representatives to evaluate and/or establish regulations achieving the goal of disease surveillance while promoting farmed deer commerce.



### KEY STAKEHOLDERS

- Deer and Elk farmers
- Cervid Advisory Committee
- USDA Animal and Plant Health Inspection Service Veterinary Services
- Michigan Department of Natural Resources
- United Deer Farmers of Michigan

### LEGAL AUTHORITY:

- Act 466, P.A. 1988, as amended, the Animal Industry Act
- Act 190, P.A. 2000, The Privately Owned Cervidae Producers Marketing Act Memorandum of Understanding (MOU) with Michigan Department of Natural Resources (DNR)
- 9 Code of Federal Regulations (CFR) Part 55 9 CFR Part 77
- Bovine Tuberculosis Eradication: Uniform Methods and Rules, Effective January 22, 1999
- Chronic Wasting Disease Program Standards, USDA, May 2014

# ANIMAL INDUSTRY DIVISION



## COMPANION AND EXOTIC ANIMALS

**PROGRAM MANAGER:** Michele Schalow | 517-284-5688 | [schalowm@michigan.gov](mailto:schalowm@michigan.gov)

In order to protect animal health, AID receives and investigates reports for over 30 diseases in companion and exotic animals, which includes dogs, cats, ferrets and birds. In addition, the department serves as a subject matter expert in state laws related to companion and exotic animals.

### **IMPACT FOR MICHIGAN:**

Many reportable diseases not only have the potential of causing serious disease in animals, but also can affect the health of animal owners. By identifying and rapidly addressing these disease concerns, the health of Michigan's domestic animals and citizens is protected. Additionally, AID works with the departments of Health and Human Services and Natural Resources to address the spread of disease between wildlife, domestic animals and humans.

### **ACCOMPLISHMENTS:**

- Collaborated with MDHHS and other stakeholders to revise the Michigan Rabies Flow Chart to reflect changes in rabies control and prevention with respect to cats and dogs.
- Collaborated with Michigan State University, Genesee County Animal Control, the Humane Society of Genesee County and private veterinarian to test dogs and cats with exposure to the City of Flint water for lead. Of the 351 lead tests performed, one dog was found to have lead toxicosis and six others were found to have elevated levels of lead in the blood consistent with exposure to lead.
- Investigated 192 reports of diseases in companion and exotic animals.

## MEASURING SUCCESS:

Metric	2016
Reportable diseases responded to within two days of receipt (target 80% or greater)	79%

## PROGRAM GOALS:

- Provide guidance to the public on state companion and exotic animal laws.
- Maintain a list of reportable diseases for companion and exotic animals.
- Respond in a timely and effectively manner to reportable diseases in companion and exotic animals.
- Respond in a timely and effectively manner to complaints of ferrets and turtles sold or otherwise transferred in Michigan without advisory sheets.



### KEY STAKEHOLDERS

- Michigan Department of Health and Human Services
- Michigan State University, Diagnostic Center for Population and Animal Health
- United States Department of Agriculture Animal and Plant Health Inspection Service Veterinary Services
- Food and Drug Administration
- Michigan Veterinary Medical Association

### LEGAL AUTHORITY:

- Act 466, PA 1988, as amended, The Animal Industry Act
- Act 358, PA 1994, Ferrets
- Act 424, PA 1988, Turtles
- Act 274, PA 2000, Large Carnivores
- Act 246, PA 2000, Wolf-Dog Cross
- Act 339, PA 1919, Dog Law
- Act 309, PA 1939, Registration and Identification of Dogs
- Act 163, PA 1945, Sale of Dyed Chicks, Rabbits, and Ducklings

# ANIMAL INDUSTRY DIVISION



## COMPLIANCE INVESTIGATIVE UNIT

**PROGRAM MANAGER:** Martin Al Rodriquez | 517-284-5687 | [rodriqueza@michigan.gov](mailto:rodriqueza@michigan.gov)

The Compliance Investigative Unit's purpose is to conduct investigations of reported alleged violations to the laws, regulations and program standards AID is responsible for carrying out under Chapter 287 of the Michigan Compiled Laws. The CIU is also tasked with fairly and uniformly utilizing progressive enforcement measures to obtain compliance with these laws, regulations and program standards.

### IMPACT FOR MICHIGAN:

The CIU is important to Michigan citizens because it supports AID's programs to protect public health and animal health. Enforcement of the laws, regulations and program standards helps ensure a safe and quality food supply. Additionally, the CIU ensures the state is safeguarded from unwanted animal pests and diseases, which could economically devastate segments of Michigan's economy.

### ACCOMPLISHMENTS:

- Conducted 454 investigations of alleged violations of Chapter 287 of the Michigan Compiled Laws.
- All compliance staff completed required Emergency Management training.
- Completed certification for an additional 800 MHz radio trainer.
- Improved the process for reporting unlicensed livestock dealers to compliance.

## MEASURING SUCCESS:

Metric	2015	2016
First-time offenders who did not repeat (target 90%)	96%	94%
Average time to complete investigations (target 30 days)	24 days	23 days
Average time to issue out investigations (target less than 5 days)	5	5

## PROGRAM GOALS:

- Have 90 percent or greater, of first-time offenders, not repeat the same violation of laws, regulations and program standards.
- On average, complete investigations within 30 days from when an allegation is reported to CIU.
- In 2017, review program standards and develop enforcement action plans for four of AID program's.
- Conduct four joint enforcement operations at rest areas with law enforcement agencies, checking for animal movement violations.



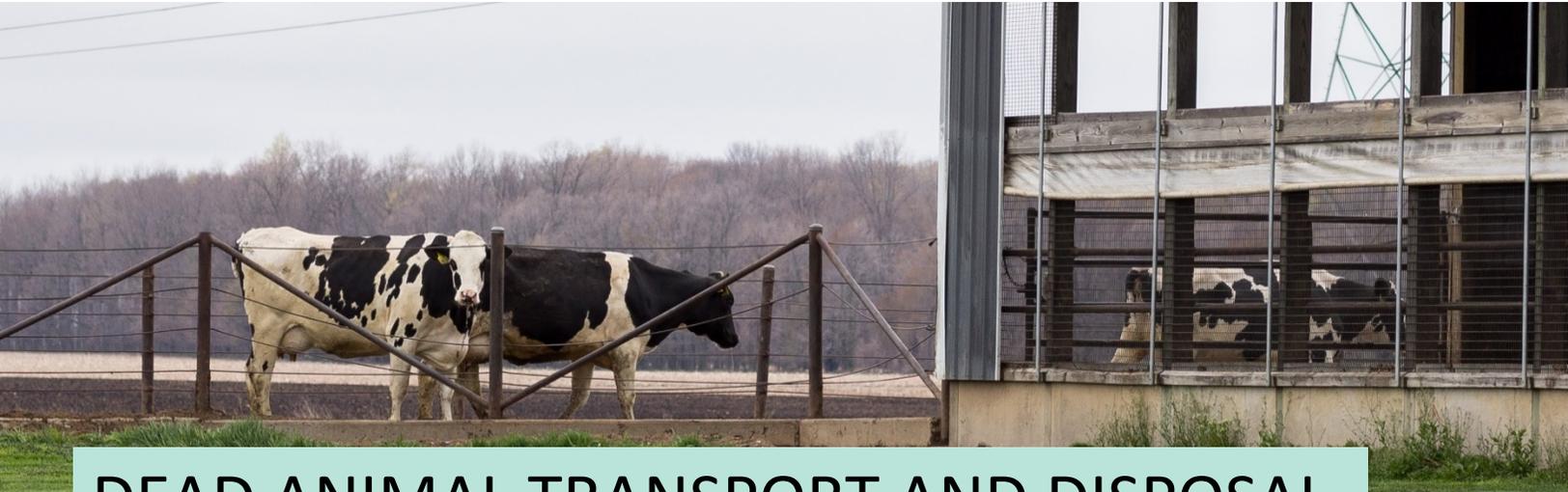
### KEY STAKEHOLDERS

- Michigan Farm Bureau
- Michigan State Police, Commercial Vehicle Enforcement Division
- Michigan County Sheriff's Departments

### LEGAL AUTHORITY:

- Laws identified in Chapter 286 and 287 of the Michigan Compiled Laws
- Regulations identified under the Michigan Administrative Code

# ANIMAL INDUSTRY DIVISION



## DEAD ANIMAL TRANSPORT AND DISPOSAL

**PROGRAM MANAGER:** Michele Schalow | 517-284-5688 | [schalowm@michigan.gov](mailto:schalowm@michigan.gov)

In Michigan, dead animals can be buried, composted, burned or rendered/made into animal feed. AID licenses and regulates businesses that produce animal feed and other products from dead animals. Additionally AID regulates restaurant grease, as well as businesses that transport and/or transfer dead animals and restaurant grease for further processing. There are currently 21 such businesses licensed in Michigan. As a part of this program, AID also ensures dead animals on private property are adequately disposed of by educating the public on proper disposal, investigating complaints and pursuing enforcement when necessary.

### **IMPACT FOR MICHIGAN:**

If not properly transported or disposed, dead animals can attract predators, spread disease to other animals and people, and be odorous and unsightly. Dead animals also have the potential of affecting the environment. The dead animal transportation and disposal program ensures dead animals and grease in Michigan are properly disposed, transported and processed, while looking for new alternatives to animal disposal to reduce the impact on the environment and allow more disposal choices for animal owners.

### **ACCOMPLISHMENTS:**

- Completed nine pre-licensing inspection requests for new vehicles and facilities, all of which became licensed.
- Investigated three businesses potentially operating without a license. All three were found to be operating without a license and brought into compliance (two opting to become licensed and one opting to cease conducting regulated activities).

## MEASURING SUCCESS:

Metric	2014	2015	2016
Inspections conducted by the due date (target 85% or greater)	100%	96%	90%
Facilities found to be in compliance at inspection (target 70% or greater)	50%	75%	92%

## PROGRAM GOALS:

- Provide guidance to the public on proper animal disposal.
- Respond to complaints in a timely and effective manner.
- Conduct inspections in a timely and effectively manner, including conducting yearly inspections of all licensed facilities in conjunction with the Michigan Department of Agriculture and Rural Development's Pesticide and Plant Pest Management Division.



### KEY STAKEHOLDERS

- MDARD's Pesticide and Plant Pest Management Division
- Michigan Department of Environmental Quality
- United States Food and Drug Administration
- Michigan State University
- National Renderers Association

### LEGAL AUTHORITY:

- Act 239, PA 1982, Bodies of Dead Animals and Regulations (BODA)

# ANIMAL INDUSTRY DIVISION

## EMERGENCY MANAGEMENT

**PROGRAM MANAGER:** Nancy Barr, D.V.M.  
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The Emergency Management Program ensures AID is prepared to react quickly and effectively to animal-related emergencies. This program helps ensure safe communities by protecting livestock industries through rapid response and containment of emergency diseases, preventing spread to other animals and thus ensuring a healthy, sustainable, and accessible environment. Limiting the number of impacted animals reduces animal suffering, protects human health and the food supply, and mitigates environmental impacts associated with emergency animal carcass disposal.

### IMPACT FOR MICHIGAN:

The Emergency Management Program works to ensure continuity of business processes during emergency situations. These efforts protect both the state's economy and Michigan jobs. The Emergency Management Program also works to assist Michigan's citizens with planning for and responding to disasters or emergencies that impact their companion animals.

### ACCOMPLISHMENTS:

- Established two Incident Management Teams within AID for emergency response.
- Enhanced emergency supplies inventories and tracking capabilities.
- Designed and ordered a custom emergency response trailer for poultry disease outbreaks.
- Conducted an emergency exercise in collaboration with the poultry industry on continuity of business during an avian disease emergency.
- Participated in national and multi-state planning events for foot and mouth disease, avian influenza, and permitted movement for continuity of business during a disease event.
- Developed comprehensive emergency response plan for highly pathogenic avian influenza.

## MEASURING SUCCESS:

Metric	2016
AID staff trained in Incident Command System	73%
Emergency Exercises Held	5

## PROGRAM GOALS:

- Establish and maintain trained incident management teams within AID.
- Comply with National Incident Management System training requirements for all AID staff.
- Hold one to two emergency animal disease response exercises annually with livestock industry participation.
- Maintain adequate inventories of emergency response supplies and equipment.
- Support companion animal emergency response planning efforts with key partners.



## KEY STAKEHOLDERS

- Livestock industries within Michigan
- Michigan State Police EMHSD Division
- Michigan Department of Health and Human Services
- Michigan Department of Environmental Quality
- Michigan Department of Natural Resources
- Michigan's American Red Cross State Chapter
- County Emergency Management Offices
- County or Local Health Departments
- Michigan State Animal Response Team

## LEGAL AUTHORITY:

- Act 466, P.A. 1988, as amended, the Animal Industry Act
- Act 390, P.A. 1990, Emergency Management Act
- Michigan Emergency Management Plan (MEMP) Animal Annex

# ANIMAL INDUSTRY DIVISION



## EQUINE

**PROGRAM MANAGER:** Michele Schalow | 517-284-5688 | [schalowm@michigan.gov](mailto:schalowm@michigan.gov)

In order to protect animal health, AID maintains a list of 26 reportable diseases in equine and investigates any reports of these diseases. Additionally, AID serves as a subject matter expert in state laws related to equine, as well as veterinary and animal health expertise for other agencies and stakeholders.

### **IMPACT FOR MICHIGAN:**

Reportable diseases have the potential of causing serious disease in animals and economic losses to the equine industry. Some equine diseases also pose a risk to humans and equine serve as sentinel species for the risk to humans. Additionally, welfare is an increasing concern with the public and agencies investigating animal care complaints may ask AID for expertise in equine laws and veterinary medicine.

### **ACCOMPLISHMENTS:**

- In partnership with Michigan State University's Diagnostic Center for Population and Animal Health and Michigan Department of Health Human Services, facilitated testing of 11 ill horses for West Nile virus.
- Investigated 14 cases of reportable diseases in equine.
- Revised state policy to no longer require a veterinary statement regarding vesicular stomatitis for animals being imported from a state that has had a case of the disease within the prior 12 months.
- Assisted local law enforcement by evaluating animal health and husbandry at two equine premises.
- Created brochures on proper biosecurity practices for equine exhibitors and show organizers.

## MEASURING SUCCESS:

Metric	2016
Reportable diseases responded to within two days of receipt (target 90% or greater)	86%

## PROGRAM GOALS:

- Provide guidance to the public on state equine laws.
- Maintain a list of reportable diseases for equine.
- Respond in a timely and effective manner to cases of reportable diseases in equine.
- Respond in a timely and effective manner to complaints of equine moved without required equine infectious anemia (coggins) testing.
- Provide timely updates to stakeholders through the Equine Disease Communication Center and AID's e-newsletter.
- Facilitate disease testing of animals for West Nile virus, as well as Eastern equine encephalitis and rabies when possible at MSU DCPAH, in partnership with the Michigan Department of Health and Human Services.
- Create and implement a program to require equine piroplasmosis testing for quarter horse racehorses, which have been found to be at an increase risk for the disease.

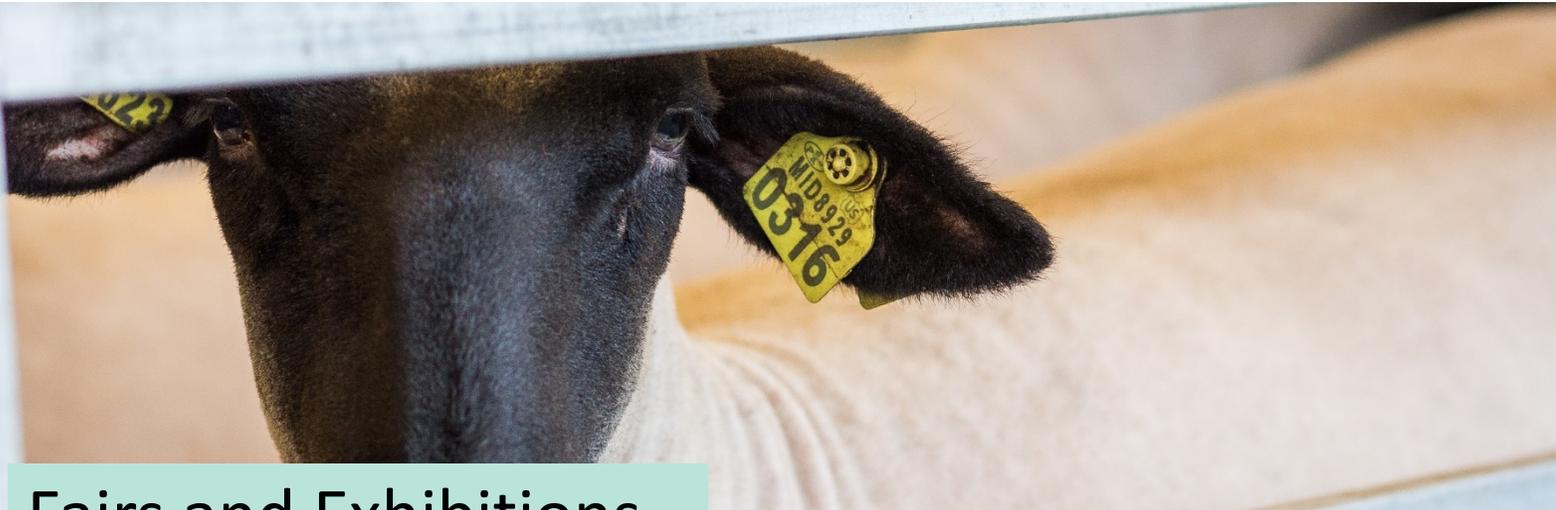


### KEY STAKEHOLDERS

- Michigan Veterinary Medical Association
- Michigan State University
- United States Department of Agriculture, Veterinary Services
- Michigan Department of Health and Human Services
- Michigan Gaming Control Board

### LEGAL AUTHORITY:

- Act 466, PA 1988, as amended, The Animal Industry Act



## Fairs and Exhibitions

**PROGRAM MANAGER:** Jarold M. Goodrich, DVM | 517-284-5677 | [goodrichj@michigan.gov](mailto:goodrichj@michigan.gov)

The Fairs and Exhibition Program protects, regulates and promotes animal health through visits and educational outreach to fairs and exhibitions. Program works with these event to ensure all appropriate livestock have official identification, appear healthy, have necessary tests charts and interstate health certificates when needed and have proper care. When notified, all reportable diseases are investigated to aid with diagnostics and control of the disease. Additionally, biosecurity is emphasized to help protect the animals, the exhibitors and the general public, both prior to and during a disease outbreak.

### IMPACT FOR MICHIGAN:

This program regulates fairs and exhibitions where livestock are shown. At these events, animals frequently have direct contact with the public, potentially increasing the risk of disease transmission between humans and animals. By implementing proper biosecurity and addressing disease issues, this program protects both animal and public health.

### ACCOMPLISHMENTS:

- In 2016, seventy county and state fairs were visited by AID staff members, a 64 percent increase from 2015.
- Assistance was provided to one county fair where Swine Influenza was suspected and diagnosed.
- Record checks were performed at one county fair when human cases of swine influenza were reported.
- Assistance was provided to one county fair where infectious laryngotracheitis was suspected and diagnosed, including the removal, euthanasia and disposal of the susceptible birds.
- Avian influenza surveillance was provided to fairs that were willing to participate.

## MEASURING SUCCESS:

Metric	2015	2016
Fairs and exhibitions visited	45	70
Reportable disease responses	0	3
Avian Influenza surveillance performed-number of fairs	0*	15

\* Poultry exhibitions cancelled in 2015 due to national HPAI outbreak.

## PROGRAM GOALS:

- In 2017, visit as many county fairs as possible, including the eight that have not been visited in the last three years.
- Respond upon notification of a reportable disease at a fair or exhibition to assist in protecting animal and human health.
- Continue to develop the existing relationship with Michigan Association of Fairs and Exhibitions members, other show authorities and their designated private practice veterinarians.



### KEY STAKEHOLDERS

- Michigan Association of Fairs and Exhibitions
- Michigan Department of Health and Human Services
- Local Health Departments
- Michigan State University College of Veterinary Medicine
- Michigan State University Diagnostic Center for Population and Animal Health

### LEGAL AUTHORITY:

- Act 466, P.A. 1988, as amended, the Animal Industry Act



## LIVESTOCK DEPREDEATION

**PROGRAM MANAGER:** Jim Bowes | 517-284-5671 | [bowesj@michigan.gov](mailto:bowesj@michigan.gov)

To provide fair and timely compensation to livestock owners for animals killed, injured or missing as a result of wolves, coyotes and cougars.

### **IMPACT FOR MICHIGAN:**

To assist and protect local businesses, communities and economies by helping livestock producers continue to do business in areas of the state with high populations of predators.

### **ACCOMPLISHMENTS:**

- The Memorandum of Understanding, between MDARD and the Michigan Department of Natural Resources, which details each department's program responsibilities was updated.
- Created standard operating procedures for the program to ensure timeliness and efficient use of resources.
- Updated the program's affidavit used by livestock producers claiming depredation.
- Reorganized the program to assure all claims are processed in a timely manner.

## Program Metrics:

Metric	2014	2015	2016
Livestock killed by wolves, coyotes or cougars	233	154	89
Livestock reported as missing	-	-	15
Livestock Producers submitting claims	-	-	19
Payment amounts made for depredation including missing livestock	\$46,170	\$59,998	\$39,985
Average number of days between depredation claim and payment made by MDARD (new metric)	-	-	10

## PROGRAM GOALS:

- AID will process all livestock depredation claims within 45 days of receiving approved and completed forms.
- AID and DNR in consultation will develop frequently asked questions regarding livestock depredation to be provided to producers.
- MDARD and DNR will work together to develop a livestock depredation risk assessment program in order to reduce livestock depredations at high risk farms.



### KEY STAKEHOLDERS

- Michigan Department of Natural Resources
- United State Department of Agriculture, Animal and Plant Health Inspection Service, Wildlife Services
- Michigan livestock producers

### LEGAL AUTHORITY:

- Wildlife Depredations Indemnification Act, Public Act 487 of 2012

# ANIMAL INDUSTRY DIVISION



## LIVESTOCK MARKETING

**PROGRAM MANAGER:** Theresa Drysdale, D.V.M. | 517-284-5791 | [DrysdaleT@michigan.gov](mailto:DrysdaleT@michigan.gov)

The purpose of the livestock marketing program is to provide regulatory oversight regarding fiscal surety, animal welfare, disease control and animal disease traceability issues as they pertain to livestock marketing activities. Additionally, entities engaged in the business of buying, selling, transporting, and/or negotiating the sale and transfer of livestock are required to be licensed with AID, bonded - when appropriate and to maintain records of such activities. Licensed livestock facilities and transport vehicles are required to be well-maintained to assure animal welfare and human safety, as well as to prevent the spread of disease.

### IMPACT FOR MICHIGAN:

The livestock marketing program protects, regulates and promotes animal and human health by providing guidance on animal health issues and state laws and regulations regarding those in the business of buying, selling, transporting, and/or negotiating the sale and transfer of livestock. Keeping these businesses in compliance, ensure the economic success of this faction of the agricultural industry.

### ACCOMPLISHMENTS:

- Improved internal procedures for processing licensing applications and following-up on overdue license renewals, increasing efficiency.
- Customer service was improved by making the license application and renewal instructions easier to understand.
- 100 percent of licensed markets and buying stations were inspected once in 2016 and 95 percent of licensed markets and buying stations were inspected twice in 2016.
- Created a overview brochure on livestock marketing to give licensees a better understanding of requirements and license types.

## MEASURING SUCCESS:

Metric	2016
Licensed dealers and truckers inspected (target 40%).	52%
Licensed markets and buying stations inspected once every six months (target 100%)	95%

## PROGRAM GOALS:

- Create an advisory committee to provide stakeholder insight and input on programmatic activities.
- Develop standards to clarify how a licensee must conduct their business to remain in compliance with the law and to ensure that inspections are completed in a consistent manner.



### KEY STAKEHOLDERS

- United States Department of Agriculture
- Michigan Farm Bureau
- Livestock Marketing Association
- United Producers, Inc.

### LEGAL AUTHORITY:

- Public Act 284 of 1937, as amended, the Licensing Livestock Dealers Act
- Public Act 466 of 1988, as amended, the Animal Industry Act

# ANIMAL INDUSTRY DIVISION

## POULTRY

**PROGRAM MANAGER:** Nancy Barr, D.V.M.  
517-284-5669 | [barrn@michigan.gov](mailto:barrn@michigan.gov)

The Poultry Program is responsible for responding to reported avian diseases, maintaining an active and passive surveillance program for avian influenza, collaborating with Michigan's commercial poultry industry on emergency avian disease response planning and for maintaining a group of certified pullorum testers.

### **IMPACT FOR MICHIGAN:**

Michigan's egg industry contributes \$625 million, the turkey industry contributes \$100 million to the Michigan economy and all segments of the poultry industry are growing. Our industry includes: broiler, table-egg and turkey flocks for meat and egg production as well as breeder flocks for exhibition birds, turkeys, table-egg hens and upland game birds. In addition to our commercial industry, there are many small flocks throughout the state which are kept for exhibition, meat and eggs or simply as a hobby. The goal of the Poultry Program is to safeguard all of Michigan's poultry flocks from reportable diseases and to respond quickly and efficiently when a poultry disease is detected. By protecting these flocks, the program safeguards Michigan's economy and food availability.

### **ACCOMPLISHMENTS:**

- Developed comprehensive emergency response plan for highly pathogenic avian influenza.
- Conducted emergency exercise with the poultry industry on continuity of business during an avian disease emergency .
- Held three certification programs for Pullorum Testers in 2016.
- Responded to 15 cases of reportable avian diseases in 2016.
- Conducted passive and active surveillance for avian influenza in Michigan's commercial and small flocks.

## MEASURING SUCCESS:

Metric	2015	2016
County fairs participating in avian influenza surveillance	0*	15
Birds tested as a part of the Active AI surveillance program for National Poultry Improvement Plan Subpart E flocks	810	1,260

\* Poultry exhibitions cancelled in 2015 due to national HPAI outbreak.

## PROGRAM GOALS:

- In 2017, perform avian influenza surveillance at county fairs.
- In 2017, hold a certified pullorum tester school.
- Assist industry in compliance with the National Poultry Improvement Plan's H5/H7 avian influenza monitored and clean programs.
- Perform continuous planning, exercise, assessment and mitigation cycle for emergency poultry disease response preparation.
- Receive and test new poultry foaming trailer for response to emergency poultry diseases.
- Provide education and outreach on key poultry messages such as: Infectious Laryngotracheitis at exhibitions, salmonella associated with baby chickens, biosecurity and avian influenza.



### KEY STAKEHOLDERS:

- Michigan Allied Poultry Industries, Inc.
- Diagnostic Center for Population and Animal Health, Michigan State University
- Michigan State University Extension and 4-H
- United States Department of Agriculture, Animal Plant Health Inspection Service, Veterinary Services
- Michigan Department of Health and Human Services
- Michigan Farm Bureau

### LEGAL AUTHORITY:

- Act 466, P.A. 1988, as amended, the Animal Industry Act
- 9 Code of Federal Regulations (CFR) parts 145, 146 and 147, the National Poultry Improvement Plan

# ANIMAL INDUSTRY DIVISION



## SHEEP AND GOAT

**PROGRAM MANAGER:** Cheryl Collins, D.V.M. 517-284-5686 | [CollinsC3@michigan.gov](mailto:CollinsC3@michigan.gov)

The Sheep and Goat Program focuses on ensuring proper scrapie identification and providing educational information to producers on scrapie and other animal health concerns. These activities are conducted under a Cooperative Agreement with the United States Department of Agriculture to assist in the eradication of scrapie.

Scrapie is a transmissible spongiform encephalopathy affecting sheep and goats. The presence of scrapie in US sheep and goat population has an economical impact through production losses, lost exports, and disease costs.

### IMPACT FOR MICHIGAN:

Maintaining scrapie free status is crucial in interstate and international trade. Additionally, monitoring for official identification on sheep and goats at livestock markets provides animal disease traceability and minimizes use of resources in disease investigations.

### ACCOMPLISHMENTS:

- Monitored 15 livestock markets quarterly for scrapie identification compliance in sheep and goats.
- Continued education and outreach efforts to sheep and goat producers on importance of scrapie ID requirements and record keeping.

## MEASURING SUCCESS:

Metric	2015	2016
State status for USDA Scrapie Program	Maintained	Maintained
Compliance actions for inadequate official identification observed at livestock markets	60	80
Scrapie identification compliance at livestock markets - sheep	98%	99%
Scrapie identification compliance at livestock markets - goats	90%	91%

## PROGRAM GOALS:

- Investigate sheep and goat reportable diseases, when applicable.
- Provide producers with information about sheep and goat scrapie identification requirements and take compliance actions if necessary.
- Work toward achieving one hundred percent compliance in sheep and goat identification in animals in livestock marketing channels.



### KEY STAKEHOLDERS

- Sheep and goat farmers
- Livestock markets
- United States Department of Agriculture Animal and Plant Health Inspection Service Veterinary Services
- Michigan Sheep Breeders Association
- American Goat Federation

### LEGAL AUTHORITY:

- Act 466, P.A. 1988, as amended, the Animal Industry Act
- 9 CFR 54 – Control of Scrapie
- Scrapie Eradication Uniform Methods and Rules, Effective June 1, 2005



## SWINE

**PROGRAM MANAGER:** Steve Hussey DVM | 517-284-5685 | [Husseys@michigan.gov](mailto:Husseys@michigan.gov)

The Swine Program protects, regulates and promotes the swine industry through implementing, maintaining and coordinating animal health programs on a statewide basis. The program coordinates the swine official identification program, including National Uniform Eartagging System tags for fairs and exhibitions. Additionally, the program manages swine importation requirements and Swine Health Plan agreements with other states. In collaboration with United States Department of Agriculture Animal and Plant Health Inspection Service Veterinary Services, USDA Wildlife Services, and the Michigan Department of Natural Resources, commercial swine operations are protected through control of feral swine populations.

### **IMPACT FOR MICHIGAN:**

The swine industry in Michigan is a significant part of our agricultural economy. Maintaining swine pseudorabies and brucellosis free status is a critical component of continuing trade in the U.S. and internationally. Newly emerging swine diseases have caused major economic impacts to the industry and some swine diseases are zoonotic with the potential to impact public health. Collaboration between industry, regulators and researchers limits the effects of these diseases and protect animal and public health.

### **ACCOMPLISHMENTS:**

- Coordinated 39 Foreign Animal Disease Investigations and revised AID's policy on laboratory testing for Senecavirus A.
- Managed swine identification programs, including distribution and tracking of nearly 14,000 NUES tags in 2016.
- Responded to reports of swine influenza in over 40 exhibition pigs at three county fairs, collaborating with the Michigan Department of Health and Human Services to limit incidence of swine influenza in people.
- Maintained Swine Health Plan agreements with Indiana for three of our largest commercial swine herds.

## MEASURING SUCCESS:

Metric	2015	2016
USDA Pseudorabies and Brucellosis Stage V Free Status	Maintained	Maintained
Swine identification tags distributed	16,657	13,948

## PROGRAM GOALS:

- Maintain Michigan's Pseudorabies and Brucellosis Free status.
- Collaborate with industry stakeholders to meet regulatory needs as the industry evolves due to the new Coldwater slaughter plant coming on board in 2017/2018.
- Continue to distribute official swine identification tags to fairs and veterinarians and audit more than 50 percent of fairs for compliance with record keeping requirements.
- Respond to all reportable disease incidents in swine.



## KEY STAKEHOLDERS

- Michigan Pork Producers Association
- Michigan State University Extension
- Michigan State University College of Veterinary Medicine
- Michigan Swine Health Committee
- Michigan Department of Natural Resources

## LEGAL AUTHORITY:

- Animal Industry Act, 1988 PA 466 as amended

# ANIMAL INDUSTRY DIVISION

## VETERINARY BIOLOGICALS

**PROGRAM MANAGER:** James Averill, DVM, PhD  
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Companies and manufacturers selling or distributing veterinary biologics in Michigan are regulated by state and federal government. The MDARD Director has authority to restrict sale and distribution when necessary for protection of domestic animals or public health, interest, or safety or both. Sale and distribution requests are submitted to AID through the State Veterinarian's Office. Approvals or denials are based on requirements outlined in statute and rules.

### **IMPACT FOR MICHIGAN:**

Michigan's 3,000 licensed veterinarians and over 35 million domestic animals rely on veterinary biologics to maintain healthy animals. Veterinary biologics help ensure animal health, a safe food supply and protect the general public from zoonotic diseases.

### **ACCOMPLISHMENTS:**

- Approved over 18 million doses of autogenous vaccine/bacterin use in Michigan.
- Assisted with three studies exploring new products/uses for veterinary biologics.

## MEASURING SUCCESS:

Metric	2015	2016
Approvals for veterinary biological	125	120
Approvals for autogenous vaccine/bacterin	109	102
Doses of autogenous vaccine/bacterin	24,243,711	18,303,407
Approved veterinary biological studies	10	3

## PROGRAM GOALS:

- Ensure veterinary biologicals are safe, effective and available for the diagnosis, prevention and treatment of animal diseases.
- Have an efficient and effective approval/denial process for veterinarian biologics.
- Measure the impact of the Veterinary Biological Program.



### KEY STAKEHOLDERS:

- Private Veterinarians
- Pharmaceutical companies
- Livestock producers

### LEGAL AUTHORITY:

- Act 466, P.A. 1988, as amended, the Animal Industry Act R 287.703 Importation, distribution, and use of veterinary biologicals

# APPENDIX A: 2016 REPORTABLE DISEASES

## Small Animal, Exotic and Equine Disease:

Disease	Species	Number of Cases
Brucellosis	Canine	5
Influenza	Canine	3
Eastern equine encephalitis	Equine	2
Equine viral arteritis	Equine	1
Leptospirosis	Canine	120
Leptospirosis	Equine	7
Listeria	Feline	1
Melioidosis	Primate (Hominidae)	1
Psittacosis	Pet Bird	3
Rabies	Bats	37
Rabies	Skunks	4
Toxic substance contaminations	Canine	13
Toxic substance contaminations	Equine	3
Toxic substance contaminations	Feline	2
Tuberculosis	Primate (Hominidae)	2
West Nile virus	Equine	1

## Livestock Disease:

Disease	Species	Number of Herds/Flocks
Anaplasmosis	Bison	1
BLV	Bovine	187
Bovine tuberculosis	Bovine	5
BVD	Bovine	1
CAE	Caprine	78
Epizootic hemorrhagic disease	Cervid	1
Infectious bovine rhinotracheitis	Bovine	1
Infectious laryngotracheitis	Poultry	4
Johne's	Bovine	323
Johne's	Caprine	1
Johne's	Cervid	1
Leptospirosis	Bovine	1
Leptospirosis	Cervid	2
Listeriosis	Bovine	3
Listeriosis	Ovine	1
Marek's disease	Poultry	2
Mycobacterium avium	Poultry	1
Mycoplasma gallisepticum	Poultry	3
Mycoplasma synoviae	Poultry	2
PRRS	Swine	5
Q fever (coxiella burnetii)	Ovine	1
Scrapie	Ovine	1
Swine enteric coronavirus	Swine	16
Swine influenza associated with exhibitions	Swine	3
Toxic substance contaminations	Bovine	1
Toxic substance contaminations	Ovine	1