

# Special Thanks!

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# University of Missouri Extension Biosecurity Workshops

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**Joseph Zulovich, Ph.D., P.E.**

**Agricultural Engineering Extension**

**March 6-18, 2019**



UNIVERSITY OF MISSOURI  
 **Extension**

MIDDAY Midwest Digest, March 5, 2019



MAR 05, 2019

Pigs may transmit FMD before showing symptoms

MAR 05, 2019



Public and private sectors combine to protect Iowa's water quality

MAR 05, 2019

## SPONSORED CONTENT

Engineering ag ventilation fans

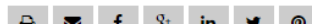
MAR 01, 2019



## Wisconsin law requires registration for all livestock locations

Through the premises registration database, the DATCP's Division of Animal Health has a vital tool to help prevent and control the spread of disease.

Mar 04, 2019



Whether you have one animal or thousands, and regardless if your facility is required to be licensed, state law requires any location that keeps livestock to be registered with the DATCP (Wisconsin Department of Agriculture, Trade and Consumer Protection).

# Things to do today!

**University of Missouri Workshops**  
**Preventing and Responding to Major Disease Outbreak**  
**Five Locations: Versailles-March 6, Springfield-March 8,**  
**Jackson-March 13, Kirksville-March 15, and St. Joseph-March 18,**  
**2019**

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<b>Time</b>	<b>Topics/Speakers</b>
09:45am	Sign in and materials (30 Min)
10:15am	Introductions of Program, Logistics, and Complete Survey (15 Min, Drs. Lim/Zulovich, University of Missouri)
10:30am	Detection, Quarantine, and Lessons Learned (45 Min, MDA Animal Health Division)
11:15am	Mortality Management and Preparation in Advance (20 Min, MO DNR)
11:35am	USDA's Role and Resources (25 Min, USDA APHIS)
12:00pm	Lunch Break and Discussion (40 minutes)
12:40pm	Disease Identification and Turnaround Time (20 Min, Drs. Delaney/Odemuyiwa/Zhang, MU Veterinary Medical Diagnostic Laboratory)
1:00pm	Economic Reasons to Improve and Maintain Biosecurity (30 min, Dr. Ray Massey, University of Missouri)
1:30pm	Overview of Secure Supply Plans (25 min, Drs. Payne/Bromfield, University of Missouri)
1:55pm	Tabletop Exercises and Discussion (60 min, Drs. Payne/Bromfield, University of Missouri)
2:55pm	Review and Conclusion, and Complete Survey (20 Min, Drs. Lim/Zulovich, University of Missouri)
3:15pm	Workshop Complete, Please Talk with Speakers After. Thank You!



# Agenda

10:15 AM

Introductions of Program,  
Logistics

10:30

Detection, Quarantine, and  
Lessons Learned, MDA  
Animal Health Division

11:15

Mortality Management and  
Preparation in Advance,  
DNR

11:35

USDA's Role and Resources,  
USDA APHIS



**Lunch! 12-12:40**

12:40

Disease Identification and  
Turnaround Time,  
VMDL

1:00


Economic Reasons to Improve  
and Maintain Biosecurity,  
Dr. Ray Massey

1:30

Overview of Secure Supply  
Plans,  
Drs. Payne/Bromfield

1:55

Tabletop Exercises and  
Discussion



**3:15 PM: Review and  
Conclusion, and  
Complete Survey**

# What you will get today

Power-point slides book

USB flash drive – Biosecurity whiteboard video

Checklist, and contact list, laminated

**Knowing who's who, and great discussion!**

# Another resource to know!



mdconline  
Missouri Department of Conservation

Missouri Mills  
Find a Wood Processing Mill

Hunting & Trapping

Fishing

Discover Nature

Land Care

Education

INSTRUCTIONS

The Mill Information database contains information about lumber mills in Missouri. You may search by counties where the mill purchases timber, tree species purchased, mill products, or by mill name.

- If you search by Mill Name do not select any options from the 'County', 'Tree Species' or 'Mill Products' lists.
- Selections from the 'County', 'Tree Species' or 'Products' lists may be combined in a single search. Hold down the 'Ctrl' key to select more than one option from any list.
- Selecting from more than one list will narrow the search.

Search by Mill Name

Mill Name

\* None Selected \*  
468 SAWMILL  
A AND K LUMBER  
A AND S SAWMILL

OR

Search for counties where trees are purchased, tree species purchased, and/or products the mill produces:

County

\* None Selected \*  
Adair  
Andrew  
Atchison

Tree Species

\* None Selected \*  
Ash  
Baldecypress  
Black cherry

Mill Products

\* None Selected \*  
Barrels/stocks  
Blocking  
Cabin logs

Search

Reset

Explore MDC  
Blogs  
Conservation Areas  
Conservationist Magazine

About Us  
Career Information  
Career Openings  
Construction Activities

<http://mdc7.mdc.mo.gov/applications/MOMills/MOMillsSearch.aspx>

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# Another resource to know!

Fishing

Discover Nature

Land Care

Education

## Search Results

County Search = Osage

Mill Name	Address	Phone	Cell Phone	Fax	Email	Counties	Species Purchased	Mill Products
CEDAR MILLING INC	10934 STATE ROAD K, PORTLAND, MO 65267	(573) 254-3557	---	---	---	Callaway, Montgomery, Osage, Gasconade, Warren, Audrain	E. redcedar	---
DUNLAP SAMWILL	48 COUNTY ROAD 5280, BOSS, MO 65440	(573) 626-4408	(573) 247-1013	(573) 626-4491	dunlapmill@centurylink.net	Dent, Iron, Crawford, Washington, Texas, Shannon, Reynolds, Laclede, Wright, St. Francois, Pulaski, Wayne, Carter, Madison, Maries, Gasconade, Franklin, Jefferson, Ste.Genevieve, Osage, Cole	Oak, Hickory, Sycamore, Maple, Pine	Blocking, Cants, Pallet Lumber, Ties, Grade
OSAGE WOOD SHAVINGS	610 COUNTY RD 602, LOOSE CREEK, MO 65054	(573) 897-3974	---	---	---	Osage, Cole, Maries, Gasconade, Callaway, Miller	E. redcedar	Excelsior/bedding
P&J LOGGING AND SAWMILL	1750 Hwy TT, ST. CLAIR, MO 63077	(636) 744-2562	(636) 744-2562	---	p_j_logging@yahoo.com	Crawford, Jefferson, Warren, St. Charles, St. Louis, Gasconade Osage, Maries, Montgomery	Red oak, White oak, Cedar, Cottonwood, Sycamore, Hackberry, Box Elder	Custom beam sawing, trailer flooring, barn siding
W W CEDAR CO., LLC	34314 HIGHWAY 63N, VIENNA, MO 65582	(573) 422-6288	---	(573) 422-9811	WWCEDARCOLLC@YAHOO.COM	Maries, Osage, Cole, Gasconade, Phelps, Miller	E. redcedar	Lumber, Excelsior/bedding

Sawmill Owners: If the information shown for your mill is not correct, please contact Tom Treiman (573-882-9909, ext. 3308, or [tom.treiman@mdc.mo.gov](mailto:tom.treiman@mdc.mo.gov))

<http://mdc7.mdc.mo.gov/applications/MOMills/MOMillsSearch.aspx>

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# Please use your checklist



## Checklist: Preventing Disease Outbreak



Biosecurity protocols are very important to safeguard animal health, food safety, environment, and economy. Everyone needs to be reminded of the potential of disease outbreak. Every few months, you and/or your employee(s) can use this form to complete safety checks on your farm.

Insert additional biosecurity checks and information that may be important when re-inspecting your protocols. Keep completed forms for follow-up, future reference, and inspections. Additional copies or electronic version of this form can be obtained by contacting MU Agricultural Engineering Extension, 573-882-0085.

Biosecurity items to check	Yes	Needs Corrections	Date corrected or notes
Are traffic controls and inspection requirements in place, and are they being enforced?			
Are signs restricting visitor entrance and instructions to report to designated point posted and maintained?			
Are policies regarding requirements for employees, service personnel, and visitors followed?			
Is equipment that is brought into the animal area cleaned and disinfected?			
Is the line of separation clearly marked, maintained, and followed?			
Clean, site-specific boots and clothes are available at site and being used and maintained.			
Water and feed are from uncontaminated sources and protected from contamination.			
Animals are housed/fed in ways that minimize stress, crowding, and fighting.			
Sick animals are immediately treated and removed from groups.			
Unusual illness is immediately brought to the attention of the veterinarian.			
Are dead animals immediately removed from the group and properly disposed of?			
Access to manure by animals is reduced by timely cleaning and removal.			
Are employees trained to be vigilant and report suspicious visitors and unusual events?			
Contacts with veterinarian, local agencies (MDA Vet and DNR) established and maintained.			
Has this checklist been used frequently and records maintained?			

Name of person completing check: \_\_\_\_\_ Date : \_\_\_\_/\_\_\_\_/\_\_\_\_

Disclaimer: The facts/information listed are suggestions for biosecurity, but are in no way a comprehensive and exhaustive list of all actions needed to ensure disease prevention.

# And the contact list!



## Preventing Disease Outbreak - Contact List



Missouri Department of Agriculture, Animal Health Division

Phone: (573) 751-3377

Email: [Animal.Health@mda.mo.gov](mailto:Animal.Health@mda.mo.gov)

Veterinarian Districts of Missouri



Missouri Department of Natural Resources

Environmental emergency, call (573) 634-2436

CAFO webpage: <http://dnr.mo.gov/env/wpp/cafo/>

**Regional Offices:** Kansas City – (861) 251-0700  
 Macon (NE) – (660) 385-8000  
 Springfield (SW) – (417) 891-4300  
 St. Louis – (314) 416-2960  
 Poplar Bluff (SE) – (573)-840-9750



USDA Animal and Plant Health Inspection Service

District Office, Jefferson City, MO

(573) 893-6833



University of Missouri

Veterinary Medical Diagnostic Laboratory

(573) 882-6811 or 1-800-862-8635



University of Missouri

Food Systems and Bioengineering Extension

(573) 882-0085



Disclaimer: The facts/information listed are suggestions for biosecurity, but are in no way a comprehensive and exhaustive list of all actions needed to ensure disease prevention.



# What is the checklist about?



**Also available on Youtube:**

<https://youtu.be/2Hu9bW67YrI>

# Website for Files!



Agricultural Systems Management  
Teng Teeh Lim

College of Agriculture, Food and Natural Resources

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Commercial Agriculture Program

Home

Biosecurity

Current Research

Publications

Extension Activities

Emission Monitoring

Emission Modeling

Mitigation Tests

Odor Setback Model

Other Photos

Useful Links

## Biosecurity

### *Preventing and Responding to Disease Outbreak*

#### New: Workshops 2019!

A collaborative team of MU Extension faculty is receiving funding from the North Central Extension Risk Management Education group, to offer five workshops in Missouri. The workshops are free but pre-registration is required. Please register before February 27, 2019.

Please click the link below to download a registration form. The form can be printed or downloaded to fill. Please fax (573-884-5650), email (PerryKK@missouri.edu), or mail this form to Kristi Perry, 207 Agricultural Engineering Building, Columbia, MO 65211-5200.

1. [Biosecurity 2019 Flyer](#) (This is a fillable PDF form, click to print or download)

#### What Was Done in 2017

Biosecurity protocols are very important to safeguard animal health, food safety, environment, and the economy. Everyone working with livestock and poultry needs to be properly trained on executing biosecurity procedures, and be reminded of the potential of disease outbreak.

The North Central Extension Risk Management Education group funded an Extension project to provide the biosecurity workshops in Missouri. Five workshops were conducted in Neosho, Buffalo, Jackson, Sedalia and Kirksville, Missouri. University of Missouri Extension agricultural engineers Teng Lim and Joe Zulovich put together the proposal and enjoyed a lot of support from Extension in Oklahoma and Minnesota, and Missouri Department of Agriculture Animal Health Division and Missouri Department of Natural Resources. Other important collaborators included USDA APHIS and NRCS.

During the workshops, attendees were provided with:

- Booklet of the presentation files
- A biosecurity checklist and important contacts, laminated
- Whiteboard animation of the biosecurity checklist
- USB jump-drive, which contains all the materials above

#### Presentations from the 2017 Workshops

Presentation files from in the workshops include:

<http://faculty.missouri.edu/limt/Biosecurity.shtml>

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# Thank you!

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