Greetings!

Hope you are experiencing a productive and safe harvest season. Topics covered in this edition of the Swine Extension Update Newsletter include: research spotlight on potential use of microalgae products in swine diets, upcoming common swine industry audit workshop in Morris, MN, biosecurity reminders for PRRS and PEDv season, Seneca Valley Virus, and upcoming PQA Plus and TQA certification classes.

The 2016 PorkBridge and SowBridge distance education program schedules are being planned. Look for final details of the programs, including registration specifics in the January Swine Extension Update Newsletter.

Please forward this email to other members of our swine industry that you feel would be interested, and/or they can email me with their request to be added to the newsletter distribution list.

Sarah Schieck
UMN Swine Extension Educator

UMN Swine Research Spotlight

Potential use of microalgae products in swine diets

Joey Mielke, Yiwei Ma, Milena Saqui-Salces, Pedro Urriola, Chi Chen, and Jerry Shurson

The University of Minnesota (UMN) Swine Nutrition group is exploring feeding microalgae to pigs. The initial experiments at the UMN suggest that microalgae utilization in animal diets is promising. From a nutritional standpoint, microalgae are...
applicable and attractive as a feed supplement to livestock diets because microalgae has demonstrated crude protein levels ranging from 14 - 38.2%, elevated fat content from 1.5 - 9.3%, and high levels of beneficial omega-3 fatty acids, vitamins, minerals, fibers and other bioactive compounds.

Read the review further to learn about industrial production, species, nutritional value, and data on the potential utilization of microalgae products, specifically in diets for pigs.

**Common Swine Industry Audit Workshop - Morris, MN**

Are you and your farm ready for an on-farm audit? Plan to attend a Common Swine Industry Audit (CSIA) workshop to get prepared for an on-farm audit. University of Minnesota Swine Extension is partnering with Minnesota Pork Board to offer free workshops to get you prepared for the CSIA. Very positive reviews were given for the previous workshops conducted in Mankato and Worthington. Join us for the workshop in Morris, MN.

- **November 19 - Morris**
  West Central Research & Outreach Center
  46352 State Hwy 329

The workshop will be held from 10:00 am - 2:00 pm. Attendees should bring a laptop computer to work on Standard Operating Procedures (SOPs) during the workshop.

No cost to attend, but pre-registration is required. Register online or contact Sarah Schieck (320-235-0726 ext. 2004) to register.

The CSIA workshop will go through the 89 questions of the audit tool, which includes records, documents, and SOP that need to be available for the audit. Attendees will be provided with a binder and a flash drive, including customizable audit materials for their farms.

**New Educational Resources - Needlestick Prevention Videos & Fact Sheets**
Over 80% of farm workers have accidentally stuck themselves with a needle. This includes farmers and employees who work on swine or dairy farms. The Upper Midwest Agricultural Safety and Health Center (UMASH) has new videos posted on YouTube in English or Spanish and each video discusses:

- Most common injuries associated with needlesticks
- Guidelines for correct use
- Products or biologics of most concern
- Proper disposal in approved sharps containers
- Steps to take if injured while injecting

Each video is an educational resource intended for farmers, farm employees, veterinarians, human resources training staff and those involved with worker health and safety training/education.

The videos can be used in conjunction with the fact sheets: Needlestick Prevention on the Farm and Needlestick Prevention for Producers and Veterinarians, which are available at Upper Midwest Agricultural Safety and Health Center.

Additional videos on various agriculture safety related topics can be accessed on the U.S Agricultural Safety and Health Centers YouTube channel.

**Review Biosecurity as we Approach PRRS & PEDv Season**

With cooler weather on its way, we are approaching a more favorable environment for PRRS and PEDv. Last year was a relatively mild winter in terms of PRRS and PEDv, but it is uncertain what the case will be this winter. To be prepared, pork producers should review biosecurity protocols before winter.

Some things to consider when reviewing biosecurity measures:

1. Communicate with everyone involved with manure handling - manure crew should never enter barns, office areas or walk over areas used by farm personnel. Equipment should be washed and disinfected between sites. Manure applicators should move from PRRS and PEDv negative herds to positive ones to avoid cross contamination.
2. Establish a line of separation for transport - line between the area used by transporters and the area used by farm or market personnel. Transporters should limit their access to the truck and trailer. Load-out crews should not re-enter buildings without first cleaning up and changing coveralls and boots.

3. Maintain strict cleaning of barns, equipment, trucks, and trailers.

4. Have a biosecurity plan for all non-farm personnel - Extension Educators, PQA Plus Advisors, veterinarians, nutritionists, supply or feed company employees, state and environmental management staff, maintenance and utility workers.

5. Know your farm’s PEDv and PRRS status - have a diagnosis plan in place with your herd veterinarian.

6. Stay informed - pork industry is working hard on communicating latest information and practical tips at www.pork.org/pedv.

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**Farm Legal Issue Fact Sheets Available Online**

A new eight-part series of fact sheets on farming and agricultural legal issues is now available online. The new topics cover entity selection and restrictions, trusts, landowner liability, water rights and drainage, mitigating counter-party risk, labor law and the Affordable Care Act. The fact sheets are from the University of Minnesota (UMN) Extension Agricultural Business Management team and attorney Phillip L. Kunkel and others from the Gray Plant Mooty law firm.

Sixteen existing online resources in the series have been updated to reflect regulatory changes. The revised fact sheets cover topics including farm leases, agricultural production and marketing contracts, financing the farm operations, mortgages and contracts for deed, tax considerations of liquidations and reorganizations, and bankruptcy.

The complete series of fact sheets can be found on the UMN Extension Agricultural Business Management website.

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**Seneca Valley Virus**
As included in the September newsletter, pigs in the Midwest have been and continue to be diagnosed with Seneca Valley Virus (SVV).

Clinical signs and gross lesions of SVV are indistinguishable from vesicular foreign animal diseases (FAD) including foot and mouth disease, vesicular stomatitis, and swine vesicular disease making rapid response and differential diagnosis necessary. Clinical signs in infected sows, nursery pigs, and finishing pigs may include:

- Vesicles and coalescing erosions on the snouts and coronary bands
- Acute lameness in a group of pigs
- Ulcerative lesions on or around the hoof wall
- Anorexia, lethargy and/or fever - In early course of the disease, fevers up to 105°F have been reported

Producers' role and responsibilities if they notice any of the above clinical signs:

- Notify your veterinarian to investigate the lesions and other clinical signs
- Do not move animals which are ill or exhibiting clinical signs including clinically active lesions
- If possible, segregate/isolate affected animals on the site
- Document movements leading up to and immediately surrounding the onset of clinical signs as the information may be useful in disease analysis or the FAD investigation.
- Cooperate with sample collection and submission as part of the FAD investigation under the direction of a state or federal animal health official.

Visit the Swine Health Information Center for more information on Seneca Valley Virus and research efforts being done to learn more about the virus.

(Source: Swine Health Information Center - www.swinehealth.org)

**PQA Plus and TQA Certification Classes Coming Up**

Are you current with your Pork Quality Assurance (PQA) Plus and/or Transport Quality Assurance
(TQA) certification? Upcoming training and certification classes include the following dates:

- **Nov. 11 - Mankato**
  MN Pork Board Office

- **Dec. 16 - Rochester**
  University of Rochester Heintz Center
  1926 College View Rd. SE

PQA Plus certification is scheduled from 9:00 am - noon and TQA from 1:00 pm - 4:00 pm at all locations.

For more information or to register for a course, go to [www.mnpork.com](http://www.mnpork.com) and click on Farmer Resources to view PQA Plus and TQA certification schedule, or contact Colleen at MN Pork Board or call 1-800-537-7675.

**Recertify for PQA Plus and TQA Online**

You can now recertify for PQA Plus and TQA online. In order to do this, you must have been certified previously in the program you need recertification in AND your certification in the program must still be current.

To recertify online, contact, Sarah Schieck, UMN Swine Extension Educator or call (320)235-0726 x2004 or another PQA Plus Advisor or TQA Advisor to get access to the online recertification course. For TQA recertification, online recertification can only be done every other time that you recertify.

**Contact Us**

It is our goal to bring University research to the Minnesota Pork Industry, ensuring the continued sustainability and competitiveness of producers and allied industry. You will find a list of UMN Swine Extension team members and their contact information on our [Swine Extension website](http://www.mnpork.com). Sarah Schieck, UMN Swine Extension Educator - Please email or call if I can be of assistance. schi0466@umn.edu or (320)235-0726 x2004.
# Upcoming Events Calendar

### November 2015
- **Nov. 4** - SowBridge program - "Is There an Optimal Time to Process Piglets?"
- **Nov. 11** - PQA Plus/TQA certification, Mankato, MN
- **Nov. 19** - Common Swine Industry Audit workshop, Morris, MN
- **Nov. 23** - N212 PRRS/PED Elimination meeting @ 6:00 pm, WCROC, Morris, MN
- **Nov. 30** - N212 PRRS/PED Elimination meeting @ 6:00 pm, Community Center, Prinsburg, MN

### December 2015
- **Dec. 2** - SowBridge program - "Feeding the Lactating & Weaned Sow"
- **Dec. 3** - PorkBridge program - "Starting Pigs After Arrival (nursery, weaning, grow/finish)"

### January 2016
- **Jan. 6** - SowBridge program - "Euthanasia Options"
- **Jan. 15** - Deadline to register for 2016 PorkBridge & SowBridge programs
- **Jan 19 - 20** - MN Pork Congress, Minneapolis Convention Center, Minneapolis, MN