



# Missouri Crop Improvement Association News and Notes

January – 2018

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*MCIA's News and Notes is designed to provide members and other interested individuals with information about MCIA programs and services, as well as timely access to information that impacts the seed industry and agriculture in general. Our format is structured to provide a brief introduction to topics of interest along with contact information or links to sources where you can obtain more detailed information. Many of the articles and items listed in this newsletter contain web addresses or hyperlinks by which you can obtain additional information. If you do not have internet access and would like additional information on any of the topics mentioned in this newsletter, please contact the MCIA office and we will forward you the information. Please feel free to contact the MCIA office if you have questions or suggestions for items to be included in future issues.*

## Soybean Seed Quality Update

MCIA's seed testing laboratory has completed germination analysis on 1,284 soybean samples (up 42 from 2017) with an average germination of 89.02%, a decrease of 4.67% from the same period in 2017 and down 1.19% from the 90.21% reported in December. Quality in general continues to decline as harvested soybeans in storage continue to lose moisture and drop in temperature and are handled during conditioning. We are still seeing a lot of cracked and broken seed coats. Further complicating matters this year is the presence of more seed-borne disease (phomopsis) and common storage molds than recent years. In some instances marginal quality lots have responded positively to fungicide seed treatment, especially where mechanical damage is minimal. The same holds true for germination tests on marginal lots conducted in sand versus rolled towels.

As would be expected with marginal quality seed with declining germinations, seed vigor (as measured by accelerated aging) is also declining steadily in many of the samples recently analyzed. Please feel free to contact the MCIA office if you have questions or concerns with regard to the quality of your 2017 soybean seed production.

## 2018 Spring Seed Directory

The 2018 Spring Missouri Seed Directory is completed and is available on MCIA's website under the Forms, Documents and Publications tab. In an effort to reduce postage expenses, we are not mailing a printed copy as has been the normal practice. Please contact the MCIA office if you would like to receive a printed copy of the directory and he would be happy to mail one to you. Please feel free to contact the MCIA office if you have questions regarding availability of anything contained in the directory or questions about varieties not being produced in Missouri.

## Variety Testing Performance Results

Results from the University of Missouri's 2017 performance testing for corn, sorghum and soybean are available via the internet and in printed form. Visit <http://varietytesting.missouri.edu> to access the 2017 results via the internet or contact the MCIA office and we will send you a printed copy.

Results from neighboring state soybean testing programs can be accessed via the links listed below.

2017 Illinois Soybean Performance Test Results	<a href="http://vt.cropsci.illinois.edu/soybean.html">http://vt.cropsci.illinois.edu/soybean.html</a>
2017 Arkansas Soybean Performance Test Results	<a href="http://arkansas-ag-news.uark.edu/pdf/647.pdf">http://arkansas-ag-news.uark.edu/pdf/647.pdf</a>
2017 Iowa Soybean Performance Test Results	<a href="http://www.croptesting.iastate.edu/Soybean/Reports.aspx">http://www.croptesting.iastate.edu/Soybean/Reports.aspx</a>
2017 Kentucky Soybean Performance Test Results	<a href="https://pss.ca.uky.edu/files/2017_ky_soybean_variety_performance_tests_-_yield_results.pdf">https://pss.ca.uky.edu/files/2017_ky_soybean_variety_performance_tests_-_yield_results.pdf</a>
2017 Kansas Soybean Performance Test Results	<a href="http://www.agronomy.k-state.edu/services/crop-performance-tests/soybean/index.htm">http://www.agronomy.k-state.edu/services/crop-performance-tests/soybean/index.htm</a>
2017 Tennessee Soybean Performance Test Results	<a href="http://search.utccrops.com/wp-content/uploads/2018/01/2017-TN-Soybean-Variety-Test-Report-FINAL-WEB.pdf">http://search.utccrops.com/wp-content/uploads/2018/01/2017-TN-Soybean-Variety-Test-Report-FINAL-WEB.pdf</a>

## 2018 MCIA Board of Directors Winter Meeting

MCIA's Board of Directors will hold their annual winter meeting at the MCIA office in Columbia on February 8. Members that have any items or concerns they would like added to the agenda for consideration by the Board should contact any of the director's or the MCIA office no later than February 1.

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## Missouri Agricultural Statistics Service Reports Available

The Missouri Agricultural Statistics Service (MASS) recently released several reports, including the 2017 Missouri Wheat Seedings Report, December Grain Stocks Report and the Final 2017 Missouri Crop Production Summary. These reports and many other MASS and National Agricultural Statistics Service reports can be found at: [http://www.nass.usda.gov/Statistics\\_by\\_State/Missouri/Publications/Press\\_Releases/](http://www.nass.usda.gov/Statistics_by_State/Missouri/Publications/Press_Releases/)

## CAFNR Alumnus Award Nominations

The MU Ag Alumni Association is now accepting nominations for the following awards; *Alumnus of the Year*, *Citation of Merit*, *Honorary Member*, *True Tiger Volunteer* and *Dana Brown Haynes Distinguished Service Award*. These awards annually recognize the best and brightest in Missouri agriculture and reflect the history of achievement earned by CAFNR alumni and friends. Nominations may be submitted online at <http://cafnr.missouri.edu/coe/alumni> or by mail to CAFNR Alumni Association, 2-64 Agriculture Building, Columbia MO 65211. Submission deadline for nominations is January 31.

## Links to Articles of Interest to MCIA Members

Maize Pest (Rootworm) Exploits Plant Defense Compounds to Protect Itself	<a href="http://www.ice.mpg.de/ext/index.php?id=1411&amp;L=0">http://www.ice.mpg.de/ext/index.php?id=1411&amp;L=0</a>
Wheat Rust Stemmed by International Team of Researchers	<a href="https://www.rothamsted.ac.uk/news/rust-stemmed-wheat">https://www.rothamsted.ac.uk/news/rust-stemmed-wheat</a>
Ohio State University Scientists Working to Create Better Soybeans	<a href="https://cfaes.osu.edu/news/articles/creating-better-soybeans">https://cfaes.osu.edu/news/articles/creating-better-soybeans</a>
Scientists Uncover Genetic Mechanism That Could Enhance Yield in Cereal Crops	<a href="http://news.agropages.com/News/NewsDetail---24972.htm">http://news.agropages.com/News/NewsDetail---24972.htm</a>
Michigan State University Extension Explains Purple Leaves on Wheat	<a href="http://msue.anr.msu.edu/news/purple_leaves_on_wheat_explained">http://msue.anr.msu.edu/news/purple_leaves_on_wheat_explained</a>
Parasitic Plant (Dodder) Takes Control of Host Plant's Genes	<a href="https://www.nsf.gov/news/news_summ.jsp?cntn_id=244244&amp;org=NSF">https://www.nsf.gov/news/news_summ.jsp?cntn_id=244244&amp;org=NSF</a>
Study Gives Producers Data to Improve Soil Health With Cover Crops	<a href="http://www.farms.com/news/improve-soil-health-with-cover-crops-130576.aspx">http://www.farms.com/news/improve-soil-health-with-cover-crops-130576.aspx</a>
Barley No Longer an Afterthought in Beer Flavor	<a href="http://extension.oregonstate.edu/barley-no-longer-afterthought-beer-flavor">http://extension.oregonstate.edu/barley-no-longer-afterthought-beer-flavor</a>
USDA Ag Census Forms Due February 5	<a href="https://extension2.missouri.edu/news/usda-ag-census-forms-due-feb.-5-3288">https://extension2.missouri.edu/news/usda-ag-census-forms-due-feb.-5-3288</a>
NASA Inspires Speed-Breeding That Cuts a Decade Off New Grain Varieties	<a href="http://www.abc.net.au/news/rural/2018-01-02/nasa-inspires-plant-speed-breeding-program/9298376">http://www.abc.net.au/news/rural/2018-01-02/nasa-inspires-plant-speed-breeding-program/9298376</a>
Algerian Wheat Purchase Raises U.S. Farmer Hopes for Exports	<a href="http://kneb.com/agricultural/algerian-wheat-purchase-raises-us-farmer-hopes-for-exports">http://kneb.com/agricultural/algerian-wheat-purchase-raises-us-farmer-hopes-for-exports</a>
Online Synthetic Auxin Herbicide (Dicamba) Applicator Training Opens	<a href="https://extension2.missouri.edu/news/online-synthetic-auxin-herbicide-applicator-training-opens-3293">https://extension2.missouri.edu/news/online-synthetic-auxin-herbicide-applicator-training-opens-3293</a>
Iowa Cover Crop Incentive: A Step in the Right Direction	<a href="http://www.cfra.org/news/171213/iowa-cover-crop-incentive-step-right-direction">http://www.cfra.org/news/171213/iowa-cover-crop-incentive-step-right-direction</a>
How Do Atmospheric Shifts Affect Soil Dwelling Microbes	<a href="https://news.unl.edu/newsrooms/today/article/how-do-atmospheric-shifts-affect-soil-dwelling-microbes">https://news.unl.edu/newsrooms/today/article/how-do-atmospheric-shifts-affect-soil-dwelling-microbes</a>
Lightening Up Soybean Leaves May Boost Food Supply	<a href="https://www.jpl.nasa.gov/news/news.php?release=2018-002&amp;rn=news.xml&amp;rst=7032">https://www.jpl.nasa.gov/news/news.php?release=2018-002&amp;rn=news.xml&amp;rst=7032</a>
Study Identifies Genetic Basis for Corn Rootworm Resistance	<a href="http://news.aces.illinois.edu/news/new-study-identifies-genetic-basis-western-corn-rootworm-resistance-maize">http://news.aces.illinois.edu/news/new-study-identifies-genetic-basis-western-corn-rootworm-resistance-maize</a>
Predicting the Effect of Climate Change on Crop Yields	<a href="http://www.farms.com/news/predicting-the-effect-of-climate-change-on-crop-yields-130808.aspx">http://www.farms.com/news/predicting-the-effect-of-climate-change-on-crop-yields-130808.aspx</a>

## Calendar

January 13-16	Southern Seed Association Annual Convention	New Orleans, LA
January 27-30	ASTA Vegetable & Flower Seed Conference	San Diego, CA
January 30	Missouri Soybean Association Annual Meeting and Reception	Jefferson City, MO
February 5-9	ISU Seed Business Management Short Course	Ames, IA
February 6-8	Corn Belt Seed Conference	Indianapolis, IN
February 8	MCIA Winter Board of Directors Meeting	Columbia, MO
February 27 – March 1	2018 Commodity Classic	Anaheim, CA
March 5-9	ASTA Management Academy	West Lafayette, IN