



Missouri Crop Improvement Association

News and Notes

Spring 2024

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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.

2024 Small Grains Applications and Status Update

Field inspection request applications for small grains and cereal crops were distributed in mid-March and were due at the MCIA office by April 15. We had excellent response this year and a big thank you to those that returned your request forms in a timely manner. We still have a few applications outstanding, but based on what we have received to date and what we anticipate is yet to come in, it looks our 2024 acreage will be at roughly the same level as 2023.

Reports concerning quality of the 2024 crop are very encouraging. The May 6 crop progress report rates condition of the crop as 2 percent poor, 16 percent fair, 73 percent good, and 9 percent excellent. It is our hope that conditions remain favorable and that a timely harvest will result in excellent yields, high test weights and premium quality.

As most of you can see out your window each day, the 2024 crop is a good 2-3 weeks ahead of what we would consider "normal". Winter wheat headed has reached 76 percent, compared to the 5-year average of 34 percent according to the May 6 crop progress report. We anticipate that inspections will begin in SE Missouri around the 15th of May, which is earlier than anyone can remember. Inspectors are currently receiving their assignments and have been instructed to contact their growers to check on the status of fields and schedule a time for the inspections. You should receive notification of your inspector and their contact information soon, however, if have not had contact with your inspector by May 17, please let us know. This is also a good time to remind you that cereal rye in seed wheat production fields is limited to 1 plant per acre, unless the client has requested a zero tolerance inspection. Now would be an excellent time to scout your production fields and remove any cereal rye plants before inspection.

Soybean Seed Quality Update

Based on recent volume coming through the lab, it appears that soybean conditioning wrapped up in early April for most conditioners. As of May 1, MCIA's seed testing laboratory has completed germination analysis on 1,241 soybean samples with an average germination of 89.64%. As is the case in droughty years with rapid pre-harvest dry down, germination results started out strong right after harvest and slowly declined as temperatures dropped and production lost moisture prior to conditioning. While there were a few samples with seed borne disease issues, mechanical damage was once again the single largest factor contributing to reduced germination scores. Accelerated Aging (AA) scores ran parallel with germination scores, meaning if the germination was good then the vigor was good. We saw very few requests for sand germination testing and in most cases, sand germination results were equal to or within a few points higher or lower of the traditional rolled towel results.

Missouri Prospective Plantings

According to USDA estimates released by the Heartland Regional Field Office, Missouri growers are expected to plant 3,500,000 acres of corn in 2024, down 9% from 2023. Soybean planted area is expected to total 6,000,000 acres, up 7% from last year. Cotton growers intend to plant 390,000 acres, up 16% from 2023. Rice planted area is expected to total 224,000 acres, up 9% from last year. Peanut planted area is expected to total 22,000 acres. Winter wheat area seeded last fall is estimated at 680,000 acres, down 13% from 2023. Hay producers intend to harvest 3,150,000 million acres of all hay types, down 18% from last year. Additional information can be found by phoning the Heartland Regional Field Office at (314) 595-9594 or emailing nassfohlr@usda.gov.

New Wheat Lines Being Evaluated by MCIA and Missouri Foundation Seeds

MCIA and Missouri Foundation Seeds are partnering in the evaluation of 6 new wheat lines in Columbia. These lines were also entered into the 2024 Missouri Wheat Performance Trials, so there will be comparative data available for review after harvest. Our plan is to offer top performing lines to MCIA members through a license agreement that will allow them to produce and market the lines either under a common Momentum brand number or in a company propriety naming system. Stay tuned to future editions of the newsletter for details regarding availability.

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Links to Articles of Interest

Mizzou Pest Management Field Day Set for July 11	https://ipm.missouri.edu/croppest/2024/5/pest_management_field_day-kb/
Sunn Hemp Can Boost Summer Pastures	https://extension.missouri.edu/news/sunn-hemp-can-boost-summer-pastures
Herbicide Carryover Concerns for 2024 Soybeans	https://ipm.missouri.edu/croppest/2024/3/herbicide_carryover_concerns_soybean-kb/
Head Scab (Fusarium Head Blight) in Wheat	https://ipm.missouri.edu/croppest/2024/4/wheat_scab_fusarium_head_blight-mb/
Kentucky Bluegrass: Too Much of a Good Thing?	https://extension.missouri.edu/news/kentucky-bluegrass-too-much-of-a-good-thing
Soybean Gall Midge Spreading in Midwest	https://extension.missouri.edu/news/soybean-gall-midge-spreading-in-midwest
MU Extension Recruiting Farmer's for Grassland Project	https://extension.missouri.edu/news/mu-extension-recruiting-farmers-for-grassland-improvement-project
Is Soybean Cyst Nematode Reducing the Yield Potential of Your Soybeans?	https://ipm.missouri.edu/croppest/2024/4/scn_reduced_yield-mb/
MU Plant Diagnostic Clinic Offers Free Wheat Virus Testing	https://extension.missouri.edu/news/mu-plant-diagnostic-clinic-offers-free-wheat-virus-tests-in-2024
Why Did We See Phytophthora Root Rot in 2023	https://ipm.missouri.edu/croppest/2024/4/phytophthora_root_stem_rot_soybean-mb/
Challenges and Strategies in Optimizing Soybean Planting	https://extension.missouri.edu/news/challenges-and-strategies-in-optimizing-soybean-planting
Two Weeds to Watch in Pasture and Hayfields in 2024	https://extension.missouri.edu/news/two-weeds-to-watch-in-pastures-hayfields-in-2024
Rapid DNA Test for Herbicide Resistant Weeds	https://northdakotaagconnection.com/news/rapid-dna-test-for-herbicide-resistant-weeds
Global Meta-analysis Quantifies Benefits of Cover Crop	https://phys.org/news/2024-05-global-meta-analysis-quantifies-benefits.html
Carbon Capture Cropping	https://www.niab.com/news-views/blogs/carbon-capture-cropping
Satellite Images of Plants Can Predict Yield	https://news.cornell.edu/stories/2024/05/satellite-images-plants-fluorescence-can-predict-crop-yields
Genes Identified that Boost Disease Resiliency in Rice	https://www.cals.iastate.edu/news/2024/researchers-identify-role-genes-boost-disease-resiliency-rice
Tastier Tortillas and Whiskey?	https://showme.missouri.edu/2024/tastier-tortillas-and-whiskey-the-secret-is-in-the-corn
Mizzou Part of \$6.6M Research Project on Cover Crops	https://extension.missouri.edu/news/mu-part-of-66-million-research-project-on-cover-crops
Developing More Resilient Soybeans May Come Down to Test Site Selection	https://e3.eurekalert.org/multimedia/1022336
Volunteer Wheat Harbors Wheat Streak Mosaic Virus	https://www.ksre.k-state.edu/news-and-publications/news/stories/2024/04/agriculture-wheat-disease-management.html
Rice Malt Shows Potential in Beer Brewing Process	https://www.tridge.com/news/food-scientists-show-rice-malt-has-potential-ppbmmg
Researchers Look to Rice for 'Clean Label' Ingredients	https://news.uark.edu/articles/69995/researchers-look-to-rice-for-clean-label-ingredients
New Canola Research Aims to Boost Yield and Profitability	https://m.farms.com/news/new-canola-research-aims-to-boost-yield-profitability-209350.aspx
Arkansas Producers Could be Approaching 'Peak Peanut'	https://www.uaex.uada.edu/media-resources/news/2024/march/03-15-2024-ark-peanut-production.aspx
New Discovery in Peanut Defense Mechanisms Against Aflatoxins	https://inc.nutfruit.org/new-discovery-in-peanut-defense-mechanisms-against-aflatoxins

Calendar

May 27	Memorial Day – MCIA Office Closed	
June 15-19	2024 ASTA Leadership Summit	Nashville, TN
June 16-19	AOSCA Annual Meeting	Destin, FL
July 4	Independence Day – MCIA Office Closed	
July 11	MU Pest Management Field Day	Columbia, MO
July 15	MoSoy PAC Golf Tournament	Richmond, MO
July 18	MoSoy PAC Golf Tournament	Dexter, MO
August 27-29	2024 ASTA Seed Management Academy	Lafayette, IN
September 2	Labor Day – MCIA Office Closed	