



DATE: January 21, 2025

TO: Variety Release and Recommendation Committee Members

FROM: Mike Giroux, Chair

RE: 2025 Minutes and Committees

Chair: Mike Giroux, Department Head PSPP

Secretary: Andy Hogg, Research Associate, PSPP

Crop Science

Entomology

Horticulture

Plant Biology

**Plant Genetics**

Plant Pathology

### **Agenda for 2025 Variety Release Meeting**

Following is the agenda for the 2025 Variety Release meeting to be held on **Wednesday, February 05, 2025 at 1:00 pm in 108 Plant Biosciences Building.**

- Approval of the 2024 meeting minutes.
- Barley MT17F02410 – Jamie Sherman
- Camelina MT144 and MT229- Chengci Chen and Chaofu Lu
- Winter Wheat MTV2164 – Sue Mondal

**Mike Giroux**  
**Department Head and**  
**Professor**

Department of Plant Sciences  
and Plant Pathology  
College of Agriculture  
119 Plant BioScience Building  
PO Box 173150  
Montana State University  
Bozeman, MT 59717-3150

Telephone: 406-994-7877

Fax: 406-994-7600

<b>Wheat Variety Release Committee</b>		
<b><i>Voting Members, 16</i></b>	<b><i>Title / Expertise</i></b>	<b><i>Appointing Administrator</i></b>
1. Sue Mondal / Jason Cook	Assistant Professor / Winter Wheat Breeding / Spring Wheat Breeding	PSPP Department Head
2. Deanna Nash	Manager of the Cereal Quality Lab / Cereal Quality	PSPP Department Head
3. Alan Dyer	Professor / Plant Pathology	PSPP Department Head
4. Doug Holen	MSU Foundation Seed Manager / Varietal Development	MT Foundation Seed Board
5. Heather Unverzagt	Exec. Director of the Montana Seed Growers / Foundation Seed and Seed Quality	MT Seed Growers Association Board
6. Fabian Menalled	Professor / Agricultural Specialist / Cropland Weed Research	LRES Department Head
7. Perry Miller	Professor / Cropping Systems	LRES Department Head
8. David Weaver	Professor / Entomology	LRES Department Head
9. Peggy Lamb	Research Scientist NARC / Variety Testing	Research Center Department Head
10. Jed Eberly	Assistant Professor CARC / Cropping Systems	Research Center Department Head
11. Kent McVay	Assistant Professor and Superintendent WTARC / Cropping Systems	Research Center Department Head
12. Joe Jensen	Assistant Professor and Superintendent NWARC / Crop Physiology	Research Center Department Head
13. Chengci Chen	Professor and Superintendent EARC / Cropping Systems	Research Center Department Head
14. Qasim Khan	Senior Research Scientist, Cropping Systems (SARC)	Research Center Department Head
15. Greg Wichman	Chair MAES Advisory Council	MAES Advisory Board
16. Lee Dahlman	Montana Wheat and Barley Director, Representing Teton & Chouteau County	Montana Wheat and Barley Committee
Ex-officio Daniel Juliano	Associate Director of Technology Licensing / MSU Technology Transfer	V.P. for Research and Economic Development

-11/16 present

<b>Barley and Oats Variety Release Committee</b>		
<b>Voting Members, 16</b>	<b>Affiliation</b>	<b>Appointing Administrator</b>
1. Sue Mondal	Research Scientist / Winter Wheat Breeding	PSPP Department Head
2. Deanna Nash	Manager of the Cereal Quality Lab / Cereal Quality	PSPP Department Head
3. Alan Dyer	Professor / Plant Pathologist	PSPP Department Head
4. Doug Holen	MSU Foundation Seed Manager / Varietal Development	MT Foundation Seed Board
5. Heather Unverzagt	Exec. Director of the Montana Seed Growers / Foundation Seed and Seed Quality	MT Seed Growers Association Board
6. Fabian Menalled	Professor / Agricultural Specialist / Cropland Weed Research	LRES Department Head
7. Perry Miller	Professor / Cropping Systems	LRES Department Head
8. David Weaver	Professor / Entomology	LRES Department Head
9. Peggy Lamb	Research Scientist NARC / Variety Testing	Research Center Dept. Head
10. Jed Eberly	Assistant Professor CARC / Cropping Systems	Research Center Dept. Head
11. Kent McVay	Assistant Professor and Superintendent WTARC / Cropping Systems	Research Center Department Head
12. Joe Jensen	Assistant Professor and Superintendent NWARC / Crop Physiology	Research Center Dept. Head
13. Chengci Chen	Professor and Superintendent EARC / Cropping Systems	Research Center Dept. Head
14. Qasim Khan	Senior Research Scientist, Cropping Systems (SARC)	Research Center Dept. Head
15. Greg Wichman	Chair MAES Advisory Council	MAES Advisory Board
16. Lee Dahlman	Montana Wheat and Barley Director, Representing Teton & Chouteau County	Montana Wheat and Barley Committee
Ex-officio Daniel Juliano	Associate Director of Technology Licensing / MSU Technology Transfer	V.P. for Research and Economic Development

-11/16 present

<b>Specialty Crops Variety Release Committee</b>		
<b>Voting Members, 16</b>	<b>Affiliation</b>	<b>Appointing Administrator</b>
1. Mac Burgess	Associate Professor / Horticulture	PSPP Department Head
2. Kevin McPhee	Professor / Legume Breeding	PSPP Department Head
3. Uta McKelvy	Professor / Plant Pathology	PSPP Department Head
4. Doug Holen	MSU Foundation Seed Manager / Varietal Development	MT Foundation Seed Board
5. Heather Unverzagt	Exec. Director of the Montana Seed Growers / Foundation Seed and Seed Quality	MT Seed Growers Association Board
6. Fabian Menalled	Professor / Agricultural Specialist / Cropland Weed Research	LRES Department Head
7. Perry Miller	Professor / Cropping Systems	LRES Department Head
8. David Weaver	Professor / Entomology	LRES Department Head
9. Peggy Lamb	Research Scientist NARC / Variety Testing	Research Center Dept. Head
10. Jed Eberly	Assistant Professor CARC / Cropping Systems	Research Center Dept. Head
11. Kent McVay	Assistant Professor and Superintendent WTARC / Cropping Systems	Research Center Department Head
12. Joe Jensen	Assistant Professor and Superintendent NWARC / Crop Physiology	Research Center Dept. Head
13. Chengci Chen	Professor and Superintendent EARC / Cropping Systems	Research Center Dept. Head
14. Qasim Khan	Senior Research Scientist, Cropping Systems (SARC)	Research Center Dept. Head
15. Greg Wichman	Chair MAES Advisory Council	MAES Advisory Board
16. Chris Westergard/ Colby Johnson	Montana Pulse Crop Committee Research Committee	Montana Pulse Crop Committee
17. Lee Dahlman	Montana Wheat and Barley Director, Representing Teton & Chouteau County	Montana Wheat and Barley Committee
Ex-officio Daniel Juliano	Associate Director of Technology Licensing / MSU Technology Transfer	V.P. for Research and Economic Development

-10/17 present

- **Committee Members Present:**

- **In Person:** Doug Holen, Uta McKelvy, Heather Unverzagt, Sue Mondal, David Weaver, Deanna Nash, Jason Cook, Alan Dyer, Kevin McPhee

- **Webex:** Chengci Chen, Jed Eberly, Peggy Lamb, Perry Miller, Joe Jensen

## **2025 Meeting Minutes**

### **1. Approval of the Minutes of the 2024 meeting.**

- Doug Holen motioned to approve the 2024 minutes.
- Dave Weaver seconded the motion.
- Motion passed unanimously, 14-0.

### **2. Barley Committee**

- Jamie Sherman presented data for barley line MT17F02410. Release intended to be dual-purpose for forage and feed named MT Double Barrel.
- Perry Miller asked about how forage yield was measured. Jamie commented that samples were cut by hand at soft dough.
- Doug Holen asked what disease testing had been done. Jamie tested one year for several diseases like Fusarium head blight, stripe rust and others. It was not resistant to most diseases tested and the data was not presented because she only had one year of observations.
- Dave Gettel asked about the nitrogen program used for the forage varieties.
- Jamie mentioned they use 1.2x N per bushel of expected yield. She thought that more N would be beneficial for forage trials, maybe 1.5x N. She plans on doing a nitrogen trial to determine best level for forage barley.
- Peggy Lamb commented that cutting at the soft dough stage was too late in Havre some years due to the dry environment. She said she cuts at the milk stage instead of soft dough to maximize leafy biomass.
- Jamie made a motion to release MT17F02410 (MT Double Barrel) as a PVP, title 5, public release.
- Alan Dyer seconded the motion.
- Motion passed unanimously, 11-0.

### **3. Special Crops Committee**

- Chengci Chen presented data for Camelina MT144 and MT229
- Chengci wants to release under 'Option b' for specialty crops.
- Initial germplasm selection was conducted at MSU in the greenhouse by Chaofu Lu. 212 accessions were screened. MT144 and MT229 were chosen from this group after field based selection.

- Uta McKelvy asked what the major differences were between these two lines.
- Chengci said MT229 has consistently higher oil yields compared to MT144.
- Doug Holen asked why we would release two varieties when they are so similar.
- Chengci thought MT229 would be in higher demand and might have limited seed amounts. Also, different companies could license each one to use exclusively.
- Chengci said if licensing was allowed then they could be marketed by separate companies and used exclusively, so they would not be in competition with each other.
- Daniel Juliano commented online that they are looking at one being an exclusive license, and one would non-exclusive.
- Doug Holen wanted to know how these two lines compare to the variety 'Blain Creek'.
- Chengci said the oil yield is higher, but the yield potential would be similar.
- Perry Miller asked why the oil content is higher and if it is related to a thinner seed coat and if so, would that be an issue.
- Chengci did not think it had a thinner seed coat and it looked similar to Suneson.
- Perry Miller didn't see the merit in releasing both lines given that MT229 has a higher yield potential with similar oil production.
- Peggy Lamb commented that growers are more interested in yield vs quality unless they are getting paid for it. She also commented that she did not think these lines were truly better than Suneson in yield based on the statistics presented.
- Daniel Juliano commented that companies interested in these two lines would be growing them for their own production, not public production.
- Heather Unverzagt wondered if they would be PVP. She did not think they could be based on the fact they are selections and not crosses.
- David Weaver suggested that separate motions should be made for the two lines.
- Heather Unverzagt asked if there were known variants and if these would be going through the certified seed program.
- Chengci said that both MT229 and MT442 are very uniform in the field and in seed color. The purple stems in MT229 can be variable based on how stressed the plants are.

- Chengci said he had 1,000+ pounds of seed available for increase for both lines. Doug Holen wondered where the increase for these lines would occur and if it was looked at by MSGA when increased in Sidney. Doug did not think there would be land available through Foundation Seed to increase these lines.
- Chengci said that MSGA did not look at the increase in Sidney, but he said he sent a seed sample to Foundation Seed.
- Heather Unverzagt asked if specialty crops had to go through title 5.
- Mike Giroux said no as the rules are different for specialty crops. Requirements are 1 location and 3 years of data.
- Chengci motioned to release MT229 as a licensed release.
- Dave Weaver seconded the motion.
- 2 yes votes, 8 no votes. Motion failed.
- Chengci withdrew MT442 from consideration for release.

#### **4. Wheat Committee**

- Sue Mondal presented data for winter wheat line MTV2164.
- The pedigree for MTV2164 was MT1265\*2/Joe. Joe is a white wheat from Kansas that has wheat streak resistance gene WSMV2 and stripe rust resistance. MT1265 is hollow stemmed with red seed that has curl mite resistance. A population was created using double haploid system in 2018.
- Uta McKelvy commented that the resistance gene WSMV2 is sensitive to high temperatures where resistance can break down.
- Alan Dyer asked about MTV2164 stripe rust resistance compared to Yellowstone. Sue said it was more resistant than Yellowstone.
- Doug Holen asked about winter hardiness. Sue said it had 90% survival or higher, so it has good winter hardiness.
- Heather Unverzagt asked if MTV2164 was meant to replace a current variety. Sue responded no, it is up for release because it brings improved WSMV resistance and good stripe rust resistance.
- Sam Anderson asked if there were any white kernels in the grain. Sue said no, it was uniform for red seed color.
- Mike Giroux asked if there was a proposed name for MTV2164. Sue proposed the name MT Barrett.

- Uta McKelvy asked what the disease pressure was like in the Kansas virus trials. Sue said the disease pressure was very high both years for WSMV and Triticum mosaic.
- Sue motioned to release MTV2164 as public release with PVP, title 5.
- Doug Holen seconded the motion.
- Motion passed 11-0 in favor of release.
- Alan Dyer motioned to adjourn.
- Dave Weaver seconded.
- Meeting was adjourned.

**Attendees:**

Present:

Mike Giroux, Andy Hogg, Dave Gettel, Bob Petterson, Uta McKelvy, Brandee Johnston, Heather Unverzagt, Rebecca Papke, John Wolthuizen, Clayton Edwards, Doug Holen, Kevin McPhee, Sue Mondal, David Weaver, Jamie Sherman, Greg Lutgen, Kent Kupfner, Lori Wickett, Akshara Bathini, Sergei O’Sullivan, Brandon Tillett, Andrew Lehnerz, Caleb Hale, Lucas Wright, Janaki Mahat, Akangksha Lamichhane, Chiseche Mwanza, Laykn Sonday, Emmanuel Annan, Jim Berg, Skye Smith, Deanna Nash, Jason Cook, Alan Dyer

Webex: Chengci Chen, Ben Larson, Bill Franck, Pat Carr, Charles Eckman, Christopher Caron, Jed Eberly, Daniel Juliano, Klayton Lohr, Peggy Lamb, Perry Miller, Ron Ramsfield, Ryan Holt, Sam Anderson, Todd Hansen, Joe Jensen

In Person Attendees:

Mike Giroux	MSU-PSPP	<a href="mailto:mgiroux@montana.edu">mgiroux@montana.edu</a>
Andy Hogg	MSU-PSPP	<a href="mailto:ahogg@montana.edu">ahogg@montana.edu</a>
Dave Gettel	MSU-Post Farm	<a href="mailto:Dave.gettel@montana.edu">Dave.gettel@montana.edu</a>
Bob Peterson	MSU-LRES	<a href="mailto:bpeterson@montana.edu">bpeterson@montana.edu</a>
Uta McKelvy	MSU-PSPP	<a href="mailto:Uta.mckelvy@montana.edu">Uta.mckelvy@montana.edu</a>
Brandee Johnston	MSU-Foundation Seed	<a href="mailto:Brandee.johnston@montana.edu">Brandee.johnston@montana.edu</a>
Heather Unverzagt	MSU-MSGA	<a href="mailto:hunverzagt@montana.edu">hunverzagt@montana.edu</a>
Rebecca Papke	MSGA	<a href="mailto:Rebecca.papke@montana.edu">Rebecca.papke@montana.edu</a>
John Wolthuizn	Circle S Seed	<a href="mailto:johnw@circlesseeds.com">johnw@circlesseeds.com</a>



Clayton Edwards	MSU-Foundation Seed	<a href="mailto:Clayton.edwards1@montana.edu">Clayton.edwards1@montana.edu</a>
Doug Holen	MSU-Foundation Seed	<a href="mailto:Douglas.holen@montana.edu">Douglas.holen@montana.edu</a>
Sue Mondal	MSU-PSPP	<a href="mailto:Suchismita.mondal@montana.edu">Suchismita.mondal@montana.edu</a>
David Weaver	MSU-LRES	<a href="mailto:weaver@montana.edu">weaver@montana.edu</a>
Jamie Sherman	MSU-PSPP	<a href="mailto:jsherman@montana.edu">jsherman@montana.edu</a>
Kent Kupfner	MWBC	<a href="mailto:Kent.kupfner@mt.gov">Kent.kupfner@mt.gov</a>
Lori Wickett	MWBC	<a href="mailto:Lori.wickett@mt.gov">Lori.wickett@mt.gov</a>
Akshara Bathini	MSU-PSPP	<a href="mailto:Akshara.bathini@student.montana.edu">Akshara.bathini@student.montana.edu</a>
Sergei O'Sullivan	MSU-PSPP	<a href="mailto:Sergeiosullivan@montana.edu">Sergeiosullivan@montana.edu</a>
Brandon Tillett	MSU-PSPP	<a href="mailto:brandontillett@montana.edu">brandontillett@montana.edu</a>
Caleb Hale	MSU-PSPP	<a href="mailto:Caleb.hale@montana.edu">Caleb.hale@montana.edu</a>
Lucas Wright	MSU-PSPP	<a href="mailto:Lucas.wright1@montana.edu">Lucas.wright1@montana.edu</a>
Janaki Mahat	MSU-PSPP	<a href="mailto:Janaki20225@gmail.com">Janaki20225@gmail.com</a>
Akangksha Lamichhane	MSU-PSPP	<a href="mailto:Akangksha.l@gmail.com">Akangksha.l@gmail.com</a>
Chiseche Mwanza	MSU-PSPP	<a href="mailto:Chiseche.mwanza@student.montana.edu">Chiseche.mwanza@student.montana.edu</a>
Lakyn Sunday	MSU-PSPP	<a href="mailto:lakynsonday@gmail.com">lakynsonday@gmail.com</a>
Kevin McPhee	MSU-PSPP	<a href="mailto:Kevin.mcphee@montana.edu">Kevin.mcphee@montana.edu</a>
Greg Lutgen	MSU-PSPP	<a href="mailto:Gregory.lutgen@montana.edu">Gregory.lutgen@montana.edu</a>
Emmanuel Annan	MSU-PSPP	<a href="mailto:Gorbm1993@gmail.com">Gorbm1993@gmail.com</a>
Jim Berg	MSU-PSPP Retired	<a href="mailto:jeberg@montana.edu">jeberg@montana.edu</a>
Skye Smith	MSU-PSPP	<a href="mailto:Skyles1523@gmail.com">Skyles1523@gmail.com</a>
Deanna Nash	MSU-PSPP	<a href="mailto:deanna@montana.edu">deanna@montana.edu</a>
Jason Cook	MSU-PSPP	<a href="mailto:Jason.cook3@montana.edu">Jason.cook3@montana.edu</a>
Alan Dyer	MSU-PSPP	<a href="mailto:adyer@montana.edu">adyer@montana.edu</a>