

The University of Minnesota Southern, Southwest, and West Central Research and Outreach Centers present:

# 2019 ROC RESEARCH UPDATE

A collaborative program highlighting agricultural research conducted throughout southern and central Minnesota

Registration fee:

**\$40**

Includes handouts, lunch & refreshments.

**Tuesday, February 12**

**Morris**

West Central Research & Outreach Center  
46352 State Highway 329

- 9:00 Registration
- 9:30 **Benefits & limitations of cover crops use in MN**  
*Axel Garcia y Garcia, SWROC*
- 10:00 **A watershed approach to treating agricultural drainage & surface runoff**  
*Jeff Strock, SWROC*
- 10:30 Break
- 10:40 **"Kernza" Intermediate wheatgrass for grazing & as a dual purpose cover crop**  
*Bradley Heins, WCROC*
- 11:30 **Phosphorus application to MN soils**  
*Paulo Pagliari, SWROC*
- 12:00 Lunch
- 12:45 **Expecting the unexpected in insect & disease management: How to hedge your bets**  
*Bruce Potter, SWROC*
- 1:15 **Farm Income Trends: The good, the bad, & the reality**  
*Nathan Hulinsky, U of M Extension*
- 2:05 Break
- 2:15 **Utilization of cover crops by pigs**  
*Yuzhi Li, WCROC*
- 2:45 **Corn and soybean weed management**  
*Tom Hoverstad, SROC*

**Wednesday, February 13**

**Lamberton**

Southwest Research & Outreach Center  
23669 130<sup>th</sup> Street

- 9:00 Registration
- 9:30 **Phosphorus application to MN soils**  
*Paulo Pagliari, SWROC*
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*Jeff Vetsch, SROC*
- 2:45 **Benefits & limitations of cover crops use in MN**  
*Axel Garcia y Garcia, SWROC*

**Thursday, February 14**

**Waseca**

Southern Research & Outreach Center  
35838 120th Street

- 9:00 Registration
- 9:30 **A watershed approach to treating agricultural drainage & surface runoff**  
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\*Weather-related announcements will be sent by email notification to registered participants & posted on each ROC's website at [swroc.cfans.umn.edu](http://swroc.cfans.umn.edu), [wcroc.cfans.umn.edu](http://wcroc.cfans.umn.edu), and [sroc.cfans.umn.edu](http://sroc.cfans.umn.edu) as well as on the SROC, SWROC and WCROC Facebook pages.

All programs are cash or check only at the door.

To pay with a card, pre-register online at:

<https://z.umn.edu/roc-research-update>

Continuing Education Units (CEUs) for certified crop advisers have been applied for.

For more information or with questions, call 507-752-7372, email [eneperma@umn.edu](mailto:eneperma@umn.edu), or visit: [z.umn.edu/roc-research-update](https://z.umn.edu/roc-research-update).

## 2019 ROC Research Update Registration

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Email: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Special dietary needs: \_\_\_\_\_

Indicate which ROC Research Update you plan to attend:

- Tuesday, February 12**  
WCROC - Morris
- Wednesday, February 13**  
SWROC - Lamberton
- Thursday, February 14**  
SROC - Waseca

Please mail your registration form & **\$40** fee by **Thursday, February 7, 2019** to:

**SWROC**  
23669 130<sup>th</sup> St.  
Lamberton, MN 56152

Checks can be made payable to:

**University of Minnesota**

\*For more information or to register online and pay with a card visit: [z.umn.edu/roc-research-update](http://z.umn.edu/roc-research-update)

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UNIVERSITY OF MINNESOTA



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UNIVERSITY OF MINNESOTA  
**Driven to Discover**<sup>SM</sup>

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agricultural research conducted throughout  
southern and central Minnesota*

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West Central Research  
& Outreach Center  
*Morris, MN*

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Southern Research  
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