

Wisconsin Crop Manager

Volume 22 Number 28- - - University of Wisconsin Crop Manager - - - November 17, 2015

Contents

Interseeding cover crops into corn in Wisconsin: Can it work?	145
CCA Exam Preparation.....	146
2015 Soil, Water, & Nutrient Management Meetings scheduled.....	146
2015 UW Extension Pest Management Update Meeting Series	147
Discovery Farms Conference December 15.....	148
2016 IPM Field Scout Training Class.....	148
Recap of Corn Agronomy blog during October....	148
November 2015 Corn and Soybean Market Outlook.	149
UW-Madison/Extension Plant Disease Diagnostic Clinic (PDDC) Update	149
UW-Madison/Extension Plant Disease Diagnostic Clinic (PDDC) Update	150
UW-Madison/Extension Plant Disease Diagnostic Clinic (PDDC) Update	150
UW-Madison/Extension Plant Disease Diagnostic Clinic (PDDC) Update	151
UW-Madison/Extension Plant Disease Diagnostic Clinic (PDDC) Update	151
UW-Madison/Extension Plant Disease Diagnostic Clinic (PDDC) Update	151
Vegetable Crop Update October 9, 2015.....	152

Interseeding cover crops into corn in Wisconsin: Can it work?

Matt Ruark, Associate Professor, Dept. of Soil Science, Dan Smith, Graduate Student, Dept. of Agronomy

The short answer is yes. Recent research at the Arlington Agricultural Research Station has demonstrated that interseeding rye, red clover, or radish into V5 corn led to successful stand establishment of the cover crop with no detrimental effects on yield. Details about the practice of interseeding and preliminary results are presented in a short University of Wisconsin-Extension YouTube video by Matt Ruark and Dan Smith (<http://go.wisc.edu/x93818>)

Now – will this practice work everywhere and all the time? This remains to be seen. But there is a lot to be optimistic about in-terms of cover crop establishment, which of course is the first step in obtaining the benefits in erosion reduction, nitrogen retention, and carbon building offered by the cover crops.

Click the video below to watch.



CCA Exam Preparation

Bryan Jensen
UW Extension

The registration period is now open for the February 5, 2016 CCA exam(s). The first step, other than registering for the exam, would be to review the International and/or Wisconsin Performance Objectives. Performance Objectives outline all the potential subject matter areas that could be on an exam. Performance objectives are located on the [CCA website](#) under the **Exam** tab. You can also find information about an online international exam preparation course that starts Monday, October 19.

If you are interested in taking the WI CCA exam, UW Extension has developed several resources that will help with preparation. To view these resources, navigate to the [Integrated Pest and Crop Management Website](#). Electronic publications that focus on nutrient, pest and crop management are located under the **Publications** tab. Additionally, over 70 YouTube instructional videos are available by clicking on the **Video** tab. Included under the "Crop Consultant Training Videos" playlist are over 50 videos created specifically for the Wisconsin CCA exam.

Click on the video below to start watching.



Additional resources are available at these websites.

Wisconsin Corn Agronomy
<http://corn.agronomy.wisc.edu/>

Wisconsin Soybean Agronomy
<http://www.coolbean.info>

University of Wisconsin Extension, Soil Science
<http://www.soils.wisc.edu/extension/>

University of Wisconsin Forage Research and Extension
<http://www.uwex.edu/ces/forage/>

University of Wisconsin Field Crop Plant Pathology
<http://fyi.uwex.edu/fieldcroppathology/>

University of Wisconsin Weed Science
<http://wcws.cals.wisc.edu/>

UW Vegetable Pathology
<http://www.plantpath.wisc.edu/wivegdis/>

University of Wisconsin Vegetable Crop Entomology
<http://www.entomology.wisc.edu/vegento/>

University of Wisconsin Extension, Team Forage
<http://www.uwex.edu/ces/crops/teamforage/index.html>

University of Wisconsin Extension, Nutrient Management Team
<http://www.uwex.edu/ces/ag/teams/nutrient/>

Wisconsin Pesticide Applicator Training Program
<http://ipcm.wisc.edu/pat/>

University of Wisconsin Integrated Crop and Pest Management Programs
<http://ipcm.wisc.edu/>

Wisconsin Crop Manager
<http://ipcm.wisc.edu/wcm/>

Wisconsin Pest Bulletin
<http://datcpservices.wisconsin.gov/pb/index.jsp>

2015 Soil, Water, & Nutrient Management Meetings scheduled

CONTACT: Francisco Arriaga, farrriaga@wisc.edu, 608-263-3913

The Department of Soil Science, in conjunction with University of Wisconsin-Cooperative Extension will host eight Soil, Water, & Nutrient Management Meetings around the state, starting December 1 through December 10. The purpose of these meetings is to provide research updates in the field of soil fertility, nutrient management, soil and water conservation, and water quality.

Discussion topics will include: Importance of K for crop production in Wisconsin; Wheat N management research update; Starter fertilizer and high yield management impacts on corn production; Wisconsin soil nutrient testing level trends and summary from 2010 to 2014; Nitrogen credits from green manures; Grass covers after corn tillage; Cover crops in soybean production systems; Tillage,

soil organic matter, and nutrient stratification; Soil and tillage management medley; Nutrient management update: Farm-land preservation and SnapPlus15

Speakers include Wis. DATCP staff and Matt Ruark, Robert Florence, Francisco Arriaga, and Carrie Laboski from UW-Madison Department of Soil Science.

The following CEU=s for Certified Crop Advisers have been requested: 2 CEUs in soil & water management and 2 CEUs in nutrient management.

Each meeting will begin at 10:00 am and end at 3:00 pm. A \$40.00 registration fee (which includes lunch) will be charged for the meeting. Noon meal reservations should be made with the host agent. The information packet will contain PowerPoint summaries of talks and other useful reference materials.

Organizers request participants to pre-register with the host agent at least 1 week before the meeting they wish to attend.

The schedule for the 2015 Soil, Water, & Nutrient Management Meetings is:

Tues., Dec. 1, Fitchburg, contact Heidi Johnson, dane.uwex.edu

Wed., Dec. 2, Eau Claire, contact Mark Hagedorn, 715-839-4712

Thurs., Dec. 3, Sparta, contact Bill Halfman, 608-269-8722

Fri., Dec. 4, Marshfield, contact Ken Cleveland, 608-339-4237

Mon., Dec. 7, Juneau, contact Deb Struve, 920-386-3790

Tues., Dec. 8, Kiel, contact Mike Ballweg, 920-459-5904

Wed., Dec. 9, Cecil, contact Jamie Patton, 715-526-6136

Thurs., Dec. 10, Dodgeville, contact Gene Schriefer, 608-930-9850

[Click here for the meeting tri-fold.](#)

2015 UW Extension Pest Management Update Meeting Series

Damon Smith, Extension Plant Pathology Specialist

Mark your calendars as the UW Extension's Pest Management Update meetings are just around the corner

(November 9-19). This year's program will follow the new format established in the 2014 series, with more interaction between presenters and the audience, and participation by Bryan Jensen and Dan Heider with the University of Wisconsin Integrated Pest and Crop Management Program.

We will focus the entire morning (10-noon) on integrated pest management updates by crop (corn, soybean, alfalfa, and small grains). This session will be streamlined to focus on new pesticide registrations, pest updates, and highlight important issues from 2015. After lunch, topics will be more focused on specific updates and diagnostic training. These topics will include:

- Herbicide resistance update and identification
- Managing corn rootworms
- Soybean stem disease identification

These diagnostic and focused trainings were a big hit in 2014 so don't miss out in 2015!

The full schedule with dates, meeting locations, topics and registration contact information are highlighted below. **Please register with the host agent at least 1 week prior to the meeting at the location you wish to attend**

Note that due to low turnout in past years, the Arlington location has been dropped from the rotation in 2015. There will only be 7 locations to attend the update meetings, rather than 8 locations as in previous years. Be sure to look at the 2015 schedule included with this article when selecting your preferred date and location.

Please attend the meeting location at which you registered. Each meeting in the series is a separate county-based event and host agents cannot interchange registrant fees or meal counts.

Four hours of CCA CEU pest management credits are requested and available at each location.

The speakers will be extension specialists Mark Renz, weed scientist, perennial cropping systems; Dan Heider, IPM outreach specialist, Bryan Jensen, entomologist, and Damon Smith, field crop plant pathologist.

2015 Pest Management Update Topics:

- Integrated Pest Management Updates in corn, soybeans, alfalfa, and small grains: Update on new products and/or use of existing products as well as brief highlights of the 2015 pest situations in each crop.
- Herbicide resistance update and identification: Dan

Heider and Mark Renz discuss the herbicide resistant weed situation in Wisconsin and how to identify problematic situations.

- Managing corn rootworms: Bryan Jensen will take you through identifying corn rootworm problems and how to manage them in field corn.
- Soybean stem disease identification: Damon Smith will discuss the 2015 soybean stem disease situation in Wisconsin. He will offer tips on how to identify and manage the various stem diseases that cause problems in Wisconsin.

[Click here to check out the full meeting schedule.](#)

Discovery Farms Conference December 15

On December 15, 2015 in Wisconsin Dells, Discovery Farms will continue the tradition of offering feasible farm management strategies that benefit both the farm and water quality. The 4th Annual UW Discovery Farms Conference offers something for every farmer and farm advisor: practical water quality information and implementable management solutions that are farmer-tested and environment approved.

The 2015 conference titled, *Farmer-tested, environment approved: Develop a winning cropping strategy*, will feature two farmer panels and talks related to solving water quality challenges and addressing areas vulnerable to losses. Farmer panelists will share their experiences with manure incorporation equipment and assessing nitrogen use efficiency. Experts from Minnesota, Pennsylvania and Wisconsin will offer insight into regulations, technology, and resources available for farmers. There will be ample opportunity to engage with experts and farmer panelists. No matter the crop type or management system, this conference offers something for every farmer, as is evident by the support it receives from 10 of the major agricultural groups in the state.

The conference will be held on December 15th from 9:00 a.m. to 3:30 p.m. at the Glacier Canyon Conference Center in Wisconsin Dells. Registration is \$40 dollars for members of sponsoring organizations, \$50 for non-members, and includes a noon meal. CEUs will be available. Registration will open November 1st. To view the agenda visit www.uwdiscoveryfarms.org. For more information email callie.herron@ces.uwex.edu or call 715.983.5668.

2016 IPM Field Scout Training Class

Bryan Jensen, UW Extension and IPM Program

The Madison Field Scout Training Classes will be held on the UW Madison Campus from January 4-8, 2016 (Friday, January 8th is an exam date and non-students are not required to attend that day). The course is designed to provide the skills necessary for proper pest identification, crop scouting techniques as well as provide complimentary baseline information for people preparing for the state CCA exam. Additional information such as crop growth and development, pest life cycle, pest damage symptoms and economic thresholds will be covered. Pest control recommendations, although discussed, will not be highlighted in detail during this course. Crops covered will include, corn, alfalfa, soybean and wheat. [Click here for the course syllabus.](#)

Non-student registration fee is \$225/person. To register for the IPM Scout School, make checks payable to University of Wisconsin-Madison and send to Bryan Jensen, Dept. of Entomology, 1630 Linden Dr., Madison, WI 53706. Online registration can be made at: <https://patstore.wisc.edu/ipm/register.aspx>

[Here is a PDF of the class schedule.](#)

Recap of Corn Agronomy blog during October

Joe Lauer, Wisconsin Corn Agronomist

Here are the most recent corn articles.

[Temporary Corn Grain Storage Tips](#)

October 23: Due to high yields in some areas of Wisconsin, farmers are searching for temporary grain storage options this year. Picking sites that are elevated and have good drainage is the key to storing grain on the ground. The risk of crop loss is higher when grain is stored on the...

[What Can We Learn From the 2015 Season?](#)

October 12: The 2015 growing season is rapidly coming to a close. A killing frost has not occurred yet, but it is only a matter of time. Weather during 2015 has been similar to the 30-yr normal (click here and select year under "Weather Graphs" on left side). So 2015 will...

[Corn Harvesting Losses](#)

October 5: Grain has been drying exceptionally well during 2015, so many growers will be in the thick of grain harvest this week. All your hard work during the growing season can quickly be lost if your combine is not set correctly during harvest season. Taking some time to thoroughly read...

November 2015 Corn and Soybean Market Outlook

Brenda Boetel – Department of Agricultural Economics,
University of Wisconsin-River Falls

715-425-3176

Corn

Corn has traded lower this last week in anticipation of the USDA WASDE report. The report was even more bearish than most analysts expected. USDA increased the average yield per harvested acre from 168 to 169.3. Harvested acres remained the same. Production increased to 13.654 billion bushels, up 0.7% from last month's estimates. In addition to supply changes, the USDA increased the estimated usage for feed and residual 0.5%, but reduced ethanol usage by 1.4% and exports by 2.7%. Carryover increased then by 199 Million bushels, 12.7%, giving a stocks to use ratio of 12.9%.

The weekly progress report showed corn harvest 93% complete vs. 88% on average. Basis remains strong in parts of Wisconsin, but some areas have experienced significant variability. Ethanol margins are finding some support from the firmer energy trade and ethanol production increased last week. While Brazilian corn exports of 5.55 million tonnes were a record in October.

On the December chart support is at the \$3.57 contract low. Upside resistance is at the \$3.77 20-day moving average. The seasonal trend is for corn prices to continue lower throughout November, and then increase into April 2016. As a producer if you have unpriced corn in storage you will want to monitor basis levels. The stronger than expected basis will provide some pricing opportunities. Remember that storage should be a basis decision, not a price decision, as the market trend is for prices to increase throughout the spring. If basis is strong and you want to take advantage price increases throughout the spring, store on paper. Producers can do this by marketing their corn and buying back March futures to take advantage of the currently weak spread between December and March. Another option would be to con-

sider selling call options. This will limit upside potential, but will provide revenue to add to crop sales later.

Soybean

Soybeans have also traded lower the last few weeks. The USDA WASDE increased the average yield per harvested acre from 47.2 to 48.3 bushels. Harvested acres remained the same. Production increased to 3.981 billion bushels, up 2.3% from last month's estimates. Analysts anticipated a 0.6%. USDA increased the estimated crushings at 1.890 billion bushels, up 0.5%, and exports at 1.715 billion bushels, up 2.4%. Carryover increased by 465 million bushels, up 1.4%.

The weekly progress report showed harvest 95% complete vs. 93% on average. On the January chart support is down at the \$8.57 contract low which we came within a penny of this yesterday. First resistance is at the 10-day at \$8.75 then the 20-day at \$8.87. The seasonal trend is for price to increase from now into May 2016, but there is very limited long-term upside potential for soybeans based on current supply and demand factors. Remember that when a market has no new news it tends to move lower. It will take significant bullish news to move soybean prices higher. Likely producers have very little unpriced soybeans in storage. If you are storing unpriced beans, look for short-term pricing opportunities.

UW-Madison/Extension Plant Disease Diagnostic Clinic (PDDC) Update

Brian Hudelson, Sean Toporek, Catherine Wendt, Claire Wisniewski, and Ann Joy

The PDDC receives samples of many plant and soil samples from around the state. The following diseases/disorders have been identified at the PDDC from October 3, 2015 through October 9, 2015.

Plant/Sample Type, Disease/Disorder, Pathogen, County

Field Crops

Corn, Eyespot, *Kabatiella zea*, Grant

Corn, Gray Leaf Spot, *Cercospora sp.*, Grant

Corn, Northern Corn Leaf Blight, *Exserohilum turcicum*, Grant

Oats, Crown Rust, *Puccinia coronata*, Dane

Soybean, Antracnose, *Colletotrichum sp.*, Washington, McHenry (IL)

Soybean, Brown Stem Rot, *Phialophora gregata*, Washington

Soybean, Cercospora Leaf Spot, *Cercospora kukuchii*, Marquette

Soybean, Charcoal Rot, *Macrophomina phaseolina*, Dane, Washington, McHenry (IL)

Soybean, Downy Mildew, *Peronospora manshurica*, Marquette

Soybean, Pod and Stem Blight, *Diaporthe phaseolorum*, McHenry (IL)

Soybean, Powdery Mildew, *Oidium sp.*, Marquette

Soybean, Root Rot, *Fusarium oxysporum*, *Pythium sp.*, McHenry (IL)

Soybean, Stem Canker, *Diaporthe phaseolorum*, Dane

Fruit Crops

Blueberry, Root/Crown Rot, *Pythium sp.*, Eau Claire

Specialty Crops

Ginseng, Phytophthora Root Rot, *Phytophthora sp.*, Sauk

Hop, Carlavirus, *Unidentified carlavirus*, Dane

Hop, Downy Mildew, *Pseudoperonospora humili*, Dane

Vegetables

Bean (Kidney), Root Rot, *Aphanomyces sp.*, *Pythium sp.*, *Fusarium sp.*, *Rhizoctonia sp.*, Dunn

Bean (Pinto), Rust, *Uromyces appendiculatus*, Dane

Cabbage, Black Rot, *Xanthomonas sp.*, Outagamie

Potato, Late Blight, *Phytophthora infestans*, Adams

Tomato, Late Blight, *Phytophthora infestans*, Sheboygan

For additional information on plant diseases and their control, visit the PDDC website at pddc.wisc.edu

UW-Madison/Extension Plant Disease Diagnostic Clinic (PDDC) Update

Brian Hudelson, Sean Toporek, Catherine Wendt, Claire Wisniewski, and Ann Joy

The PDDC receives samples of many plant and soil samples from around the state. The following diseases/disorders have been identified at the PDDC from October 10, 2015 through October 16, 2015.

Plant/Sample Type, Disease/Disorder, Pathogen, County

Field Crops

Soybean, Charcoal Rot, *Macrophomina phaseolina*, Buffalo

Soybean, Root Rot, *Fusarium oxysporum*, Buffalo

Fruit Crops

Cherry, Cherry Leaf Spot, *Phloeosporrella padi*, Walworth

Vegetables

Eggplant, Septoria Leaf Spot, *Septoria sp.*, Sheboygan

Tomato, Late Blight, *Phytophthora infestans*, Portage, Sheboygan

Soil

Soybean Soil, Soybean Cyst Nematode, *Heterodera glycines*, Buffalo, Iowa

For additional information on plant diseases and their control, visit the PDDC website at pddc.wisc.edu

UW-Madison/Extension Plant Disease Diagnostic Clinic (PDDC) Update

Brian Hudelson, Sean Toporek, Catherine Wendt, Claire Wisniewski, and Ann Joy

The PDDC receives samples of many plant and soil samples from around the state. The following diseases/disorders have been identified at the PDDC from October 17, 2015 through October 23, 2015.

Plant/Sample Type, Disease/Disorder, Pathogen, County

Field Crops

Corn, Anthracnose Stalk Rot, *Colletotrichum graminicola*, Lafayette

Corn, Gibberella Stalk Rot, *Gibberella zeae*, Lafayette

Soybean, Root Rot, *Rhizoctonia* sp., *Pythium* sp., *Fusarium* sp, Monroe

Forage Crops

Alfalfa, Crown Rot, *Fusarium* sp., Columbia

Fruit Crops

Apple, Cedar-Apple Rust, *Gymnosporangium* sp, Portage

Apple, Root/Crown Rot, *Pythium* sp., Fond du Lac

Plum, Anthracnose, *Gloeosporium* sp, Portage

Plum, Bacterial Canker, *Pseudomonas syringae*, Portage

Vegetables

Tomato, Late Blight, *Phytophthora infestans*, Waukesha

Tomato, Septoria Leaf Spot, *Septoria lycopersici*, Jefferson, Juneau

Soil

Soybean Soil, Soybean Cyst Nematode, *Heterodera glycines*, Dane, Green, Rock

For additional information on plant diseases and their control, visit the PDDC website at pddc.wisc.edu

UW-Madison/Extension Plant Disease Diagnostic Clinic (PDDC) Update

Brian Hudelson, Sean Toporek, Catherine Wendt, Claire Wisniewski, and Ann Joy

The PDDC receives samples of many plant and soil samples from around the state. The following diseases/disorders have been identified at the PDDC from October 24, 2015 through October 30, 2015.

Plant/Sample Type, Disease/Disorder, Pathogen, County

Field Crops

Soybean, Anthracnose, *Colletotrichum* sp., Walworth

Soybean, Charcoal Rot, *Macrophomina phaseolina*, Walworth

Soybean, Root Rot, *Pythium* sp., *Fusarium* sp., Walworth

Soybean, Sclerotinia Stem Rot, *Sclerotinia sclerotiorum*, Walworth

Soybean, Stem Canker, *Diaporthe phaseolorum*, Walworth

Fruit Crops

Cherry, Cherry Leaf Spot, *Phloeospora padi*, Walworth

Vegetables

Tomato, Late Blight, *Phytophthora infestans*, Milwaukee

For additional information on plant diseases and their control, visit the PDDC website at pddc.wisc.edu

UW-Madison/Extension Plant Disease Diagnostic Clinic (PDDC) Update

Brian Hudelson, Sean Toporek, Catherine Wendt, Claire Wisniewski, and Ann Joy

The PDDC receives samples of many plant and soil samples from around the state. The following diseases/disorders have been identified at the PDDC from October 31, 2015 through November 5, 2015.

Plant/Sample Type, Disease/Disorder, Pathogen, County

Vegetables

Tomato, Late Blight, *Phytophthora infestans*, Dodge

For additional information on plant diseases and their control, visit the PDDC website at pddc.wisc.edu

UW-Madison/Extension Plant Disease Diagnostic Clinic (PDDC) Update

Brian Hudelson, Sean Toporek, Catherine Wendt, Claire Wisniewski, and Ann Joy

The PDDC receives samples of many plant and soil sam-

ples from around the state. The following diseases/disorders have been identified at the PDDC from November 7, 2015 through November 13, 2015.

Plant/Sample Type, Disease/Disorder, Pathogen, County

Vegetables

Carrot, Bacterial Soft Rot, *Pectobacterium carotovorum*, Dane

Carrot, Cavity Spot, *Pythium sp.*, Dane

Carrot, Cottony Rot/White Mold, *Sclerotia sclerotiorum*, Dane

Carrot, Crown Rot, *Rhizoctonia sp.*, Dane, Waushara

Carrot, Fusarium Dry Rot, *Fusarium sp.*, Dane

Crucifers (Miscellaneous), Black Rot, *Xanthomonas campestris*, Iowa

Rutabaga, Crown Gall, *Agrobacterium tumefaciens*, Winnebago (IA)

For additional information on plant diseases and their control, visit the PDDC website at pddc.wisc.edu

Follow us on



Vegetable Crop Update October 9, 2015

Amanda J. Gevens, Assistant Professor & Extension Vegetable Plant Pathologist

The 31st issue of the Vegetable Crop Update is now available. This issue includes late blight updates and potato pink eye.

[Click here to view this update.](#)

Shawn Conley (@badgerbean)

The 2016 @WISoybean @WICornpro Corn Soy Expo Program and Registration just went live! Register today at cornsoyexpo.org