



Marinette County

Courthouse
1926 Hall Avenue
Marinette, WI 54143
Phone: 715-732-7510

If you will need any type of accommodation or assistance as you attend any UW-Extension sponsored event, please contact the host county or Scott at the Marinette County office at least two days prior to the event. All requests will be confidential.

Scott Reuss
715-732-7510
1-877-884-4408
cell 715-923-0807
scott.reuss@ces.uwex.edu

Sarah Mills-Lloyd
920-834-6845
sarah.mills-lloyd@co.oconto.wi.us

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January 2019 Newsletter

Yes, it is meeting season, as you can see from the table of contents and the calendar below. If you aren't able to attend an event that is interesting and/or important to you and your operation, contact Sarah or myself and we can get you the information and review it with you.

There will be an additional event or two in February that are not yet scheduled. Lastly, if you hadn't heard, Marinette UW-Extension is now on first floor of the courthouse, part of Land Information.

Scott Reuss

Newsletter Table of Contents

Page 2	Local Cropping Trial Results
Page 3	Cow College Brochure
Page 4	Robotic Milking Systems workshop brochure
Pages 5/6	Produce Safety Rule Training Brochure
Pages 7/8	Annual CAFO Update Meetings Brochure
Pages 9-11	Corn Hybrid Trial Results - Menominee/Marinette
Page 12	Heifer Management Workshop brochure
Page 13	Midwest Manure Summit brochure
Page 14	Pesticide Applicator Training notice
Page 15	Crop Cost of Production workshop; Dairy outlook
Page 16	Dairy Revenue Protection Programs & Crop Ins. Brochure

Calendar of Events (contact us if you want info on an event)

Jan. 8/15/22	Clintonville	Cow College (pg. 3)
Jan. 9	Kimberly	Agronomy Update (See Dec. Newsletter)
Jan. 11-13	Madison	WI School for Beginning Market Growers
Jan. 16	Coleman	Pesticide Applicator Training (pg. 14)
Jan. 15-17	Madison	WI Agribusiness Classic
Jan. 23	Shawano	Produce Safety Rule Training (pg. 5/6)
Jan. 25-26	Madison	Organic Grain Conference
Jan. 27-29	WI Dells	WI Fresh Fruit & Veg. Growers' Conf.
1-31/2-1	WI Dells	Corn/Soy Expo
Feb. 1	Lena	Dairy Revenue Ins. & Crop Ins. (Pg. 16)
Feb. 1/2	Madison	Organic Vegetable Prod. Conf.
Feb. 4/5	various	Annual CAFO Update Meetings (pg. 7/8)
Feb. 5	Fond du Lac	Produce Safety Rule Training (same process as Shawano & G.B. sites - contact Scott to register)
Feb. 8/9	WI Dells	WI Cattlemen's Association Winter Conf.
Feb. 16/17	Madison	Cut Flower Growers' School
Feb. 18-20	WI Dells	Midwest Forage Association & Cust Op. Seminar
Feb. 21	Lena	Pesticide Applicator Training (pg. 14)
Feb. 22	Kimberly	Heifer Growers' Workshop (pg. 12)
Feb. 27	Green Bay	Midwest Manure Summit (pg. 13)
Feb. 28	Green Bay	Produce Safety Rule Training (pg. 5/6)

Results of Local Crop Management Trials/Demonstrations

If you want more information on these trials, contact Scott. Also see pages 9-11 for the results of the Menominee, MI and Marinette, WI coordinated corn hybrid trial.

Fendryk Brothers Farms – Corn Starter Fertilizer Plot

Planted May 18. Planted population of 29,100 of Pioneer P9690AM a RM 96 mix of P9690YHR (95%) and IRC96-01LR (5%). 16 rows of each treatment planted, so total plot width is 224 rows @ 30” spacing. 7 Repetitions of randomly assigned ‘yes’ or ‘no’ starter fertilizer planted. Field is a high fertility field. 100# ESN and 8,000 gallons dairy manure applied pre-plant. Starter Fertilizer applied in the ‘yes’ treatments was 11.2 gallons of 13.2N-12.8P-4.8K-1.6S-0.4Zn

Harvested September 28, 2018, weighed with weigh wagon. (Thanks to Seed Concepts for providing the weigh wagon & operator.) Individual 16-row strips yielded from 205.3 up to 221.4 bu/acre. Numbers below are the average of the seven repetitions of each treatment.

<u>Treatment</u>	<u>Yield (bu/ac.)</u>	<u>Moisture%</u>	<u>Test Wt.</u>
Starter	213.5	25.5	52.1
No Starter	213.4	26.1	52.1

Greg Blaser – Soybean Planting Rate Plot

Planted May 29, in 30” rows, to P22T41R2. Four repetitions of each planting rate, with rates randomly assigned as to planting order within each repetition. Each individual plot consisted of a six-row pass at the assigned population. Soil fertility consistent, high P & K.

Harvested October 23, 2018. Measurements taken via weigh wagons. (Major thank you to Pioneer and Seed Concepts for supplying two wagons and staff to accomplish the harvesting.) One sample from each planting population was taken and sent in for quality analysis. Yield and Quality result averages reported below:

<u>Planted Population</u>	<u>Actual plants/acre</u>	<u>Yield/acre</u>	<u>Protein%</u>	<u>Oil%</u>
60,000	50,791	57.7	32.5	19.6
90,000	76,700	59.2	33.2	19.7
120,000	103,800	59.7	33.3	19.6
150,000	131,000	60.8	33.4	19.7
180,000	154,600	61.3	33.6	19.4

Aaron Behnke – Soybean Planting Rate Plot

Planted May 26, in 15” rows, to DSR-2110 R2Y. Three repetitions of six different planting rates. Each individual plot consisted of a six-row pass at the assigned population. Soil fertility consistent, high P & low K.

Harvested November 2, 2018. Measurements taken via weigh wagon. (Thank you to Kevin Naze for supplying and staffing the wagon.) Two reps harvested, as one was too wet. One sample from each planting population was taken and sent in for quality analysis. Yield and Quality result averages reported below:

<u>Planted Population</u>	<u>Actual plants/acre</u>	<u>Yield/acre</u>	<u>Protein%</u>	<u>Oil%</u>
41,000	47,300	42.25	35.6	18.7
66,500	65,000	45.5	35.7	19.2
86,000	97,300	53.5	35.7	18.9
108,000	118,750	56.1	36.3	18.6
137,000	172,700	52.5	35.9	18.7
158,500	167,300	55.9	36.5	18.5

Results from this plot are obviously less consistent than the Blaser plot, in part because of the drill’s actual seed distribution and also due to deer damage probably causing unaccountable differences.

Next Month’s newsletter will have the results of a large Nitrogen rate in corn study and a nitrogen rate plot in sorghum-sudan.



2019 Cow College

FVTC Regional Center
Hwy 22/45 Clintonville, Wisconsin



January 8 (1-3 PM)

The Mammary Gland and the Transition Period

Dr. Laura Hernandez, Dairy Science Department Associate Professor of Lactation Biology, UW-Madison

Dr. Hernandez will discuss the structure of the mammary gland and how it gains function over the course of pregnancy and early lactation. She will also examine how the mammary gland regulates maternal metabolism during lactation, and why this is critical particularly during the transition period. This session will also be accompanied by an interactive mammary dissection by Dr. Hernandez.

January 15 (1-3 PM)

Impact of Feeding Amino Acids on Health, Performance and Fertility of Dairy Cows

Dr. Phil Cardoso, Dairy Research and Extension Associate Professor, University of Illinois

During the transition period from late gestation through early lactation, the dairy cow undergoes tremendous metabolic adaptations. Studies over the last two decades have clearly established the link between nutrition and fertility in ruminants. Dr. Cardoso will focus on the positive effects of amino acids for dairy cows, including milk production.

Improving Dairy Herd Management With Written Protocols

Amber O'Brien, Calumet County Agriculture Educator, UW-Extension

Learn why all dairy farms need written protocols, what should be included and how to use them effectively. Some examples that will be covered include: emergencies; new employees/temporary help; herd health; milking routine; communication, and more.

January 22 Farm Tour

10:15 AM Jeffana Holsteins - E5191 Co Hwy N, Manawa 54949

Lely Grouped Robotic (6 Bot) Milking System w/ Six-row Tunnel Ventilated 360 Cow Freestall Barn

11:15 AM Dan & Chad Bonikowski Dairy Farm- N6968 Co Hwy K, Ogdensburg 54962

Delaval D-12 Rapid-exit Parlor w/ Six-row Tunnel Ventilated 400 Cow Freestall Barn

12:30 PM Lunch – Cedar Springs Golf Course – E7005 Cedar Springs Rd. Manawa

“Current/Future Dairy Housing Trends” - by Dr. Dave Kammel, Extension Dairy Housing Specialist

Register for the sessions you plan to attend: **January 8** **January 15** **January 22 (Farm Tour)**

Name(s) _____ Email _____

Address _____ City _____ Zip _____ Phone _____

Cost is \$5.00/day or \$10.00 total for all three = \$ _____ **(Call or send check to UW-Extension by Fri. Jan 4)**

Waupaca County UWEX
Courthouse 811 Harding St
Waupaca, WI 54981
715 258-6230

Shawano County UWEX
Courthouse, Rm 101
Shawano, WI 54166
715 526-6136

Outagamie County UWEX
3365 W Brewster Street
Appleton, WI 54914
920 832-5119

An EEO/AA employer, University of Wisconsin-Extension provides equal opportunities in employment and programming, including Title VI, Title IX, and the Americans with Disabilities Act (ADA) requirements. Please call about special accommodations or food allergies at least 48 hours in advance.

BUILDING OUR DAIRY FUTURE: ROBOTIC MILKING SYSTEMS PERFORMANCE & EFFICIENCY

MORNING

Monday, January 28, 2019, 10 am-12 pm

ROBOTIC FACILITIES DESIGN CONSIDERATIONS

Jouni Pitkäranta, Architect, 4dbarn



Jouni Pitkäranta is specialized in dairy, youngstock, and calf barn design especially focused on robotic milking barn design. He has designed about 600 dairy barns in total mostly in Finland, but also in Sweden, Estonia, Russia, Lithuania, Holland, and Germany.

ECONOMICS OF AUTOMATIC MILKING SYSTEMS

Larry Tranel, Dairy Field Specialist, Iowa State University Extension & Outreach



Larry Tranel specializes in financial analysis of all types of dairy farms; dairy facilities, low cost milking parlors, and cow comfort.

AFTERNOON

Monday, January 28, 2019, 1 pm-3 pm

LABOR EFFICIENCY IN AMS BARNES

Jouni Pitkäranta, Architect, 4dbarn



Jouni Pitkäranta developed an international robot barn labor efficiency project monitoring robot barn performance in numerous barns in Finland, Sweden, Denmark, Holland, and the United States.

ROBOTS: THE GOOD, THE BAD, THE UNKNOWN

Panelists: JenLar Holsteins; BMO Harris; Abts Lely Center; Fox Cities Builders



Larry and Jennifer Meyer put in an automatic milking system in 2017. Their lender, AMS dealer, and builder will join them to discuss the good, the bad, and the unknown of transitioning to robotic milking.

BUILDING OUR DAIRY FUTURE: ROBOTIC MILKING SYSTEMS PERFORMANCE & EFFICIENCY

Monday, January 28, 2019

The Osthoff Resort

101 Osthoff Ave, Elkhart Lake, WI

10:00 am Registration

10:30 am **Automated Milking System Design
Considerations**

Jouni Pitkäranta, Architect, 4dbarn

11:15 am **Economics of Automatic Milking & User
Experiences**

Larry Tranel, Dairy Field Specialist, ISU Extension

12:00 pm Lunch

1:00 pm **Labor Efficiency in AMS Barns**

Jouni Pitkäranta, Architect, 4dbarn

1:45 pm **Robots: The Good, The Bad, The Unknown**

*Panelists: JenLar Holsteins (Larry & Jennifer Meyer),
BMO Harris, Abts Lely Center, Fox Cities Builders*

3:00 pm **Wrap up**



**FOR MORE INFORMATION,
PLEASE CONTACT:**

Steph Plaster
UWEX Washington/Ozaukee Co
262.335.4482
stephanie.plaster@uwex.edu

Tina Kohlman
UWEX Fond du Lac Co
920.929.3180
tina.kohlman@uwex.edu

Scott Gunderson
UWEX Manitowoc Co
920.683.4175
scott.gunderson@uwex.edu

Amber O'Brien
UWEX Calumet Co
920.849.1450
amber.obrien@uwex.edu

Financial Support
Provided By:



Building Our Future: Robotic Milking Systems - January 28, 2019

Registration Cost: \$30 per person

Name: _____

Address: _____

City/State: _____

Zip: _____

Phone: _____

Email: _____

Please make checks payable and mail to:

UW-Extension

Attn: Robotic Milking Systems
121 West Main St, PO Box 994
Port Washington, WI 53074

Or to pay by credit card for a \$ 3 per person
convenience fee, please call 920.929.3171

Pre-registration requested by Friday, January 18.



Who Should Attend

This course is for fruit and vegetable growers and others interested in learning about produce safety, the Food Safety Modernization Act (FSMA) Produce Safety Rule, Good Agricultural Practices (GAPs), and co-management of natural resources and food safety.

All non-exempt farms will be required to have at least one owner or managerial staff member on site who has attended an approved FSMA Produce Safety Rule training such as this one. Even exempt farms will be required to keep certain records, which will be covered in this workshop. And regardless of your scale, everyone can benefit from learning about food safety practices on the farm!

The Produce Safety Alliance (PSA) Grower Training Course is one way to satisfy the FSMA Produce Safety Rule requirement outlined in § 112.22(c) that requires *'At least one supervisor or responsible party for your farm must have successfully completed food safety training at least equivalent to that received under standardized curriculum recognized as adequate by the Food and Drug Administration.'*

Produce Safety Alliance



WISCONSIN

GROWER

TRAINING



UW
Extension

University of Wisconsin-Extension



Wisconsin Department
of Agriculture, Trade
and Consumer
Protection
*Division of Food and
Recreational Safety*



What to Expect

The trainers will spend approximately nine hours of instruction time covering content contained in these seven modules:

- Introduction to Produce Safety
- Worker Health, Hygiene and Training
- Soil Amendments
- Wildlife, Domesticated Animals and Land Use
- Agricultural Water
 - Part I: Production Water
 - Part II: Postharvest Water
- Postharvest Handling and Sanitation
- Developing a Farm Food Safety Plan

In addition to learning about produce safety best practices, key parts of the FSMA Produce Safety Rule requirements are outlined within each module. There will be time for questions and discussion, so participants should come prepared to share their experiences and produce safety questions.



Funding for this program is provided, in part, by the Department of Agriculture, Trade and Consumer Protection (DATCP) through a grant from the Food and Drug Administration (FDA).

Wisconsin Grower Training Dates & Locations

December 7, 2018

Thorp, Clark County
Thorp Fire Hall

January 10, 2019

Stevens Point, Portage County
Portage County Annex

January 18, 2019

Waukesha, Waukesha County
Waukesha County Courthouse Complex

January 23, 2019

Shawano, Shawano County
Angie's Main Cafe

February 7, 2019

Baldwin, St. Croix County
St. Croix County Ag Service & Education Center

February 15, 2019

Madison, Dane County
Dane County UW-Extension

February 28, 2019

Green Bay, Brown County
Neville Public Museum

March 15, 2019

Portage, Columbia County
Columbia County Health & Human Services Building

Benefits of Attending

The course will provide a foundation of Good Agricultural Practices (GAPs) and co-management information, FSMA Produce Safety Rule requirements, and details on how to develop a farm food safety plan.

After attending the entire course, participants will be eligible to receive a certificate from the Association of Food and Drug Officials (AFDO) that verifies they have completed the training course.

To receive an AFDO certificate, a participant must be present for the entire training and submit the appropriate paperwork to their trainer at the end of the course. Participants must be at least 14 years old to receive the AFDO certificate.



Registration & Costs

Pre-registration is required. Register at fsmaproducesafety.wiscweb.wisc.edu. If you are unable to register online, please contact your local UW-Extension office for paper registration.

The cost to attend the PSA Wisconsin Grower Training Course is \$65. This cost includes the PSA Grower Training Manual, a Certificate of Course Attendance from AFDO, and lunch.



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Registration:

- \$35 Up to January 28th
- \$45 After January 28
- \$45 walk-ins (at the door - check or credit card)
- Meal included

No price adjustments for, no meal or partial attendance. No refunds.

Payment type:

- * Check-payable to BCT (Brown County Treasurer)
- * Credit card-Online ONLY
- * NO CASH

Online Registration/Payment:

[2019 CAFO Annual Meeting](https://tinyurl.com/2019CAFO)

or

<https://tinyurl.com/2019CAFO>

1. Fill out registration form
2. Click: "Submit"

MUST Complete PAYMENT by "click here to make online payment"; click "Make Payment"

3. Fill out payment form
4. Click : "Process"

A confirmation email will be sent to you

For Registration Information:

Email: laehn_jm@co.brown.wi.us

Mailing:

Brown County UW-Extension
Attn: Joan
210 Museum Place
Green Bay, WI 54303



Office use: Date received: _____; Payment Enclosed: Check # _____; Credit Card Online Other Payment ; Initial _____



Brown County UW-Extension
210 Museum Place
Green Bay, WI 54303

University of Wisconsin, U.S. Department of Agriculture and Wisconsin counties cooperating. An EEO/AA employer, University of Wisconsin Extension provides equal opportunities in employment and programming, including Title VI, Title IX, and American with Disabilities (ADA) requirements. Contact Kevin Erb at 920-391-4652 for more information on this program.

2019 Annual CAFO Update



Monday, February 4, 2019

Green Bay

8:00 am - 11:45 am

Tundra Lodge Conference Center
865 Lombardi Avenue

New London

12:00 pm - 3:45 pm

Crystal Falls Banquet
1500 Handschke Dr.

Registration deadline January 28, 2019

Tuesday, February 5, 2019

Manitowoc

8:00 am - 11:45 am

Silver Valley Banquet
1222 S. Alverno Road

Fond du Lac

12:00 pm - 3:45 pm

* *Fond du Lac County Fairgrounds Recreation Hall*
520 Fond du Lac Ave.

Registration deadline January 28, 2019

* New Location



An update meeting for WPEDES permitted CAFO owners & managers, nutrient management plan writers, and engineers.

Morning Sessions

Check In opens 7:00 am
Breakfast begins 7:30 am

Welcome

Host, Kevin Erb, UW-Extension

8:05 am

Tile Line Maintenance: Blowouts, repairs and system maintenance

Aaron Pape, UW Discovery Farms

8:40 am

Proactively Communicating when something goes wrong

Jane Hillstrom, Hillstrom Public Relations, (GB);
Amy Eckelberg, WI Farm Bureau (NL)

9:30 am

Working with the DNR to respond to emergency situations

DNR Regional Specialist & Ben Uvaas, WDNR

9:50 am

Break

10:00 am

Effects of Administrative Rule Changes on Permit Holders

Aaron O'Rourke, WDNR

10:45 am

Low Cost Options to meet NPDES permit requirements

Ben Uvaas, WDNR & Aaron O'Rourke, WDNR

11:10 am

DNR Panel Discussion-Q & A from audience

11:20 am

Cover Crops and Water Quality Impacts / Applying Manure to Cover Crops

Jamie Patton, UWEX NPM Program

11:45 am

Adjourn

Afternoon Sessions

Check In opens 11:00 am
Lunch begins 11:30 am

Welcome

Host, Kevin Erb, UW-Extension

12:05 pm

Tile Line Maintenance: Blowouts, repairs and system maintenance

Aaron Pape, UW Discovery Farms

12:40 pm

Proactively Communicating when something goes wrong

Renea Herrich (Morgan Myers) (Manitowoc / FDL)

1:30 pm

Working with the DNR to respond to emergency situations

DNR Regional Specialist & Ben Uvaas, WDNR

1:50 pm

Break

2:00 pm

Effects of Administrative Rule Changes on Permit Holders

Aaron O'Rourke, WDNR

2:45 pm

Low Cost Options to meet NPDES permit requirements

Ben Uvaas, WDNR & Aaron O'Rourke, WDNR

3:10 pm

DNR Panel Discussion-Q & A from audience

3:20 pm

Cover Crops and Water Quality Impacts / Applying Manure to Cover Crops

Jamie Patton, UWEX NPM Program

3:45 pm

Adjourn

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To register please use one of the following:

Mail: Brown County UW-Extension, Attn: Joan, 210 Museum Place, Green Bay, WI 54303

Email: Laehn_im@co.brown.wi.us

Name of Attendee(s) _____

Firm/Farm Name _____

Address _____

Phone _____ Email _____

LOCATION

Number of people attending-session location:

February 4, 2019 - Green Bay (AM) New London (PM)

February 5, 2019 - Manitowoc (AM) Fond du Lac (PM)

Before January 28th: Total Number of people _____ x \$35.00 = \$ _____

After January 28th: Total Number of people _____ x \$45.00 = \$ _____

Topic(s) you would like covered in this meeting - please write in: _____

Marinette & Menominee County Corn Performance Trials – 2018

The following three pages are the corn hybrid performance trial data from a two-site, two-state coordinated trial effort. The two cooperating farms (Pleasant View Dairy in Menominee County and Kuchta Farms in Marinette County) hosted the 58 grain and 40 silage hybrids that were tested at both sites, along with a few at individual ones. The data below is the synopsis of the corn silage data, only showing those hybrids which were entered at both sites. The next two pages are the grain data: averaged and the individual site data. As noted on the bottom of the pages, these sheets were originally printed in MSU Extension Bulletin E-43

2018 Corn Silage		TRIAL AVERAGE						
BRAND / HYBRID	RM TRAIT	YIELD			% QUALITY		MILK 2006	
		%DM	GT/A	DT/A	NDF	NDFD	STR	MKT
Byron Seeds KF43C40	93							
Byron Seeds KF49C60	99							
Channel 192-98STXRIB	92 Genuity™ SmartStax™ RIB	33.2	27.2	9.0	39.1	57.7	33.4	3302 29607
Channel 198-98STXRIB	98 Genuity™ SmartStax™ RIB	32.6	29.9	9.6 *	39.6	55.3	33.3	3291 31571
Dairyland HiDF3188-6	88 Roundup Ready® Corn 2	44.3	18.8	8.2	39.1	57.5	35.4	3329 27097
Dairyland HiDF3290-9	90 Agrisure® 3000GT	40.2	23.2	9.9 *	38.2	56.3	36.8	3369 33408
Dairyland HiDF3197RA	97 DAS SmartStax™ plus RIB	35.8	27.9	9.9 *	37.8	57.2	35.9	3393 33592
Dekalb DKC42-05RIB	92 Genuity™ VT Double Pro™ RIB	36.8	25.6	9.3	36.9	56.2	36.4	3378 31221
Federal Hybrids 4160VT2PRIB	91 Genuity™ VT Double Pro™ RIB	36.3	28.3	9.7 *	38.6	55.0	34.6	2778 26386
Federal Hybrids 4190VT2P	91 Genuity™ VT Double Pro™	39.6	22.0	8.7	35.1	55.4	38.7	3413 29600
Federal Hybrids 4680VT2PRIB	96 Genuity™ VT Double Pro™ RIB	35.1	25.1	8.7	39.1	56.8	34.0	3282 28602
Golden Harvest G90Y04-3220A-EZ1 Brand	90	34.8	26.8	9.3	37.2	55.0	35.9	3323 30588
Golden Harvest G98L17-3000GT Brand	98							
InVision FS 37TV1 RIB	87 Genuity™ VT Double Pro™ RIB	41.5	21.6	8.9	35.5	54.7	39.4	3415 30477
InVision FS 41TV1 RIB	91 Genuity™ VT Double Pro™ RIB	35.7	22.3	7.8	38.7	56.3	35.6	3327 25940
InVision FS 43RA1 EZR	93 Agrisure Viptera® 3220 E-Z Refuge®	33.5	25.3	8.6	38.3	55.9	31.5	3243 27683
InVision FS 45SV1 RIB	95 Genuity™ VT Double Pro™ RIB	37.8	23.1	8.6	38.0	56.2	36.3	3394 29213
Jung 4D178RIB	84 Genuity™ VT Double Pro™ RIB	40.8	22.7	9.1	34.1	56.3	39.7	3442 31222
Jung 42DP419	92 Genuity™ VT Double Pro™ RIB	40.3	24.7	9.7 *	36.1	56.5	36.6	3460 33423
Jung 7S378RIB	94 Genuity™ SmartStax™ RIB	32.6	30.3	9.6 *	38.8	55.3	34.5	2808 26844
Jung 46SS428	96 Genuity™ SmartStax™ RIB	34.5	29.2	10.0 *	35.3	57.9	37.8	3514 35249
Latham 3755VT2PRO	87 Genuity™ VT Double Pro™	41.4	23.4	9.6 *	36.2	55.9	38.2	3393 32454
Latham 4242VT2PRO	92 Genuity™ VT Double Pro™	35.2	27.1	9.4 *	38.1	55.8	35.6	3358 31663
Legacy Seeds L2847	88 Genuity™ VT Double Pro™ RIB	41.4	23.6	9.7 *	38.4	54.7	35.5	3293 31893
Legacy Seeds L2937	89 Agrisure® 3010	36.7	25.5	9.3	38.9	54.9	34.9	3286 30453
Legacy Seeds L3335	93							
Legacy Seeds L3537	95 Agrisure Viptera® 3110	36.1	27.6	10.3 **	36.9	55.7	36.2	2816 28567
Legacy Seeds L3547	95							
LG Seeds LG8C18VT2RIB	88 Genuity™ VT Double Pro™ RIB	36.6	25.4	9.1	36.2	57.5	37.5	3485 31820
LG SEEDS LG5410VT2RIB	91 Genuity™ VT Double Pro™ RIB	33.8	27.1	9.1	37.8	57.3	35.2	3374 30759
LG SEEDS LG44C27VT2PRO	94 Genuity™ VT Double Pro™	35.8	28.6	10.0 *	39.4	57.1	34.6	3328 33302
LG SEEDS LG44C34-3110	94 Agrisure Viptera® 3110	36.8	27.1	9.9 *	35.6	56.7	37.6	3401 33636
Masters Choice MCT2552 VIP3110	75 Agrisure Viptera® 3110	48.4	14.7	7.1	36.2	56.9	36.5	3388 23834
Masters Choice MCT3891 GT	88 Agrisure® GT							
Masters Choice MCT4572 VIP3110	95 Agrisure Viptera® 3110	38.4	22.8	8.9	40.3	54.1	33.3	3207 28430
NK Brand NK8618-3011A	88 Agrisure® GT							
NK Brand NK8881-3010A	88 Agrisure® 3010	40.1	22.9	9.2	38.2	55.0	35.7	3298 30280
NK Brand N27P-3110A	92 Agrisure Viptera® 3110	33.9	28.3	9.5 *	39.3	53.4	33.4	3266 30892
NK Brand NK9227-3220A	92 Agrisure Viptera® 3220 E-Z Refuge®	31.7	26.6	8.5	39.3	54.9	33.4	3270 27736
NK Brand NK9505-3110	95 Agrisure Viptera® 3110	38.7	24.9	9.6 *	40.1	53.9	33.1	3144 30267
Prairie Hybrids 418	97 Conventional	37.9	26.3	9.8 *	35.8	58.7	38.6	3484 34117
VIKING 71-90GS	90 Conventional	38.4	26.0	10.2 *	36.2	55.0	38.2	3377 34442
Viking 42-92	92 Conventional	33.9	27.3	9.2	38.6	57.2	35.0	3348 30830
Wolf River Valley WRV 2882 Gt	82							
Wolf River Valley WRV 2387L RR	87							
Wolf River Valley WRV 3988FL RR	88							
AVERAGE		37.2	25.2	9.2	37.7	56.0	35.8	3305 30475
HIGHEST		48.4	30.3	10.3	40.3	58.7	39.7	3514 35249
LOWEST		31.7	14.7	7.1	34.1	53.4	31.5	2778 23834
CV (%)		8.5	13.7	9.9	8.8	3.8	11.5	12 18
LSD (5%)		3.0	3.3	0.9	3.2	2.0	3.9	394 5194

2018

BRAND / HYBRID	RM TRAIT	TRIAL AVERAGE				Menominee				Marquette WI				
		%H2O	BUJA	Twt	%SL	%H2O	BUJA	Twt	%SL	%Scd	%H2O	BUJA	Twt	%SL
Brunner 2865GTA	86 Agrisure® GT	23.1	178.4	54.8	3.6	21.0	164.3	52.7	2.2	92	25.2	192.4	56.8	4.9
Brunner 2897GT-3010	89 Agrisure® 3010	23.8	211.8*	53.4	3.4	21.9	199.5*	51.0	1.0	83	25.7	224.0	55.7	5.7
Brunner 3915GT-3110	91 Agrisure Viptera® 3110	24.5	198.9*	51.1	2.2	22.1	180.4	49.1	3.9	84	26.8	217.4	53.0	0.4
Byron Seeds 35C10	85	17.2	169.6	50.8	0.5	17.2	169.6	50.8	0.5	87				
Dairyland DS9686	86 Agrisure® 3000GT	24.7	188.4	53.9	3.7	21.5	154.0	52.1	5.1	95	27.9	222.8	55.6	2.3
Dairyland DS7294a	94 Agrisure Viptera® 3220	27.4	222.9*	51.1	0.0	26.3	194.9*	48.5	0.0	83	28.4	250.9*	53.6	0.0
Dekalb DKC37-50RIB	87 Genuity™ VT Double Pro™ RIB	24.4	205.3*	51.7	1.4	21.1	183.4	49.9	0.9	93	27.6	227.1	53.4	1.9
DuPont Pioneer P9188AM	91 Optimum® AcreMax®	25.3	223.2**	51.8	1.6	23.9	216.9**	49.1	1.3	98	26.6	229.4	54.5	1.9
DuPont Pioneer P9492AM	94 Optimum® AcreMax®	30.0	214.1*	51.3	2.9	30.8	173.4	48.1	3.8	94	29.2	254.8*	54.5	1.9
Federal Hybrids 3190VT2P	81 Genuity™ VT Double Pro™	20.3	196.9	54.6	2.0	19.2	186.1	52.5	2.4	90	21.3	207.7	56.6	1.5
Federal Hybrids 3570VT2PRIB	83 Genuity™ VT Double Pro™ RIB	22.4	186.8	54.1	2.7	19.5	159.1	52.5	4.3	81	25.3	214.5	55.6	1.1
Federal Hybrids 3660GT3011A	86 Agrisure® 3011	23.1	190.6	53.9	5.6	20.6	173.2	52.2	3.2	93	25.6	208.0	55.6	8.0
Federal Hybrids 3790VT2P	87 Genuity™ VT Double Pro™	24.1	218.5*	53.1	2.6	21.6	208.1*	50.9	1.4	92	26.6	228.9	55.2	3.8
Federal Hybrids 3880VT2PRIB	88 Genuity™ VT Double Pro™ RIB	24.8	206.2*	52.3	0.0	22.8	194.5*	49.9	0.0	90	26.7	217.9	54.6	0.0
Federal Hybrids 3990VT2P	89 Genuity™ VT Double Pro™	24.3	208.8*	52.0	0.2	21.3	194.5*	51.3	0.0	90	27.2	223.1	52.7	0.4
Federal Hybrids 4160VT2PRIB	91 Genuity™ VT Double Pro™ RIB	24.8	219.5*	51.8	2.3	22.1	198.3*	49.5	4.5	92	27.5	240.6	54.0	0.0
Federal Hybrids 4190VT2P	91 Genuity™ VT Double Pro™	25.1	212.5*	51.9	0.5	22.0	204.4*	49.7	1.0	91	28.1	220.5	54.0	0.0
Foundation Direct 8972	85 Conventional	23.8	206.7*	54.9	3.2	20.9	190.8	52.6	3.7	94	26.6	222.5	57.2	2.6
Foundation Direct EXP088	88 Conventional	27.1	173.8	51.1	1.0	27.1	173.8	51.1	1.0	88				
Golden Harvest G78A02-3010 Brand	78	20.4	206.7*	50.8	5.9	20.4	206.7*	50.8	5.9	91				
Golden Harvest G80Q01-3110A Brand	80	20.8	144.9	51.7	2.7	20.8	144.9	51.7	2.7	95				
Golden Harvest G84J92-3011A,1 Brand	84	20.2	190.9	52.8	0.0	20.2	190.9	52.8	0.0	90				
InVision FS 35SV1 RIB	85 Genuity™ VT Double Pro™ RIB	23.1	187.9*	52.6	2.7	20.8	171.7	51.4	1.5	91	25.4	204.0	53.7	3.8
InVision FS 37TV1 RIB	87 Genuity™ VT Double Pro™ RIB	22.8	209.4*	54.2	0.4	20.4	194.6*	51.2	0.0	90	25.2	224.2	57.1	0.8
InVision FS 41TV1 RIB	91 Genuity™ VT Double Pro™ RIB	25.8	219.3*	51.3	2.2	24.0	178.3	49.0	4.4	89	27.6	260.3*	53.5	0.0
Jung 4D178RIB	84 Genuity™ VT Double Pro™ RIB	23.1	201.3	53.7	2.0	20.3	183.0	52.2	0.5	93	25.9	219.5	55.1	3.4
Jung 36DP318	86 Genuity™ VT Double Pro™ RIB	24.9	203.8	53.6	1.8	21.9	190.8	50.8	2.4	89	27.9	216.8	56.3	1.1
Jung 37DP328	87 Genuity™ VT Double Pro™ RIB	23.7	202.9	53.4	2.3	20.3	175.7	51.8	3.0	88	27.1	230.1	55.0	1.5
Jung 39DP338	89 Genuity™ VT Double Pro™ RIB	24.2	221.5*	51.9	0.2	21.7	200.6*	50.3	0.4	93	26.7	242.3	53.5	0.0
Legacy Seeds L2245	82	20.5	182.2	52.2	3.0	20.5	182.2	52.2	3.0	86				
Legacy Seeds L2546	85	20.7	185.3	53.3	4.5	20.7	185.3	53.3	4.5	84				
Legacy Seeds L2817	86 Genuity™ VT Double Pro™ RIB	24.0	204.4	53.3	2.0	22.0	189.1	50.7	3.2	90	26.0	219.6	55.9	0.7
Legacy Seeds L2847	88 Genuity™ VT Double Pro™ RIB	25.5	218.9*	51.9	0.5	24.2	199.6*	48.9	0.5	89	26.7	238.2	54.9	0.4
Legacy Seeds L2937	89 Agrisure® 3010	26.4	216.2*	51.3	0.2	25.8	195.2*	48.6	0.0	99	26.9	237.2	53.9	0.4
Legacy Seeds L3017	90 Genuity™ VT Double Pro™ RIB	26.1	216.3*	52.3	2.2	23.4	184.5	49.7	3.2	95	28.7	248.1*	54.9	1.1
Legacy Seeds L3117	91 Genuity™ VT Double Pro™	26.6	201.9	51.6	1.5	25.9	187.5	48.9	2.5	88	27.3	216.3	54.3	0.4
Legend Seeds LR9882VT2PRIB	82 Genuity™ VT Double Pro™ RIB	21.3	174.1	53.8	4.8	18.7	150.7	52.7	3.5	92	23.8	197.4	54.8	6.1

Legend Seeds JSC40J684RR	84 Roundup Ready® Com 2	22.9	202.6	55.0	7.2	20.8	198.7 *	53.3	1.4	92	25.0	206.5	56.6	12.9
LG Seeds LG30C02VT2RIB	80 Genuity™ VT Double Pro™ RIB	24.3	186.1	52.5	2.5	21.0	170.7	50.6	1.9	95	27.5	201.5	54.3	3.1
LG SEEDS LG5370VT2RIB	84 Genuity™ VT Double Pro™ RIB	21.1	178.5	54.5	3.1	20.0	160.8	51.7	0.5	89	22.2	196.1	57.2	5.7
LG SEEDS LG6375VT2RIB	85 Genuity™ VT Double Pro™ RIB	22.4	172.6	54.0	1.0	21.1	145.1	52.2	0.0	92	23.7	200.0	55.7	1.9
LG Seeds LG8C18VT2RIB	88 Genuity™ VT Double Pro™ RIB	25.2	203.7	51.4	0.8	22.7	174.6	49.3	1.5	87	27.7	232.8	53.4	0.0
Munson 4417GT	84 Agrisure® GT	23.5	171.6	54.2	2.4	20.9	166.6	52.9	2.1	96	26.1	176.5	55.4	2.7
Munson 4821RR	88 Roundup Ready® Com 2	23.9	216.3 *	53.1	0.0	21.6	195.7 *	51.3	0.0	95	26.2	236.8	54.9	0.0
Munson 4830-3220EZ	88 Agrisure Viptera® 3220 E-Z Refuge®	24.9	207.6 *	51.4	1.9	23.6	203.7 *	48.9	2.3	97	26.2	211.5	53.9	1.5
Munson 5016VT2P	90 Genuity™ VT Double Pro™ RIB	24.7	210.9 *	51.0	1.4	21.6	192.1 *	49.9	1.9	90	27.7	229.6	52.0	0.8
Munson 5456VT2P	94 Genuity™ VT Double Pro™ RIB	28.4	213.9 *	51.9	0.6	28.4	202.8 *	48.5	0.0	85	28.4	225.0	55.3	1.1
NK Brand NK8881-3010A	88 Agrisure® 3010	24.2	214.1 *	51.6	2.8	22.1	185.6	49.4	4.5	92	26.2	242.5	53.8	1.1
NK Brand N27P-3110A	92 Agrisure Viptera® 3110	25.0	218.3 *	53.0	7.0	23.5	188.2	51.4	12.5	87	26.4	248.3 *	54.5	1.5
DAIRYLAND SEED RPM-2918AM	85 Optimum® AcreMax®	22.4	202.1	51.7	1.4	19.8	173.2	50.7	1.6	81	24.9	231.0	52.6	1.1
PIP 3888	88 Agrisure® 3010	24.1	214.6 *	53.1	3.3	22.2	185.0	51.1	5.8	83	25.9	244.1 *	55.0	0.7
ProHarvest X18320VT2P	87 Genuity™ VT Double Pro™	23.2	197.6	52.7	1.5	20.7	181.8	50.9	2.2	101	25.7	213.4	54.5	0.7
ProHarvest 4255STAXRIB	92 Genuity™ SmartStax™ RIB	26.4	218.9 *	52.3	0.4	24.8	182.4	50.5	0.0	91	28.0	255.4 *	54.1	0.8
ProHarvest 4340VT2PRIB	93 Genuity™ VT Double Pro™ RIB	27.8	222.9 *	51.8	5.0	26.2	180.9	49.1	9.6	86	29.4	264.9 **	54.5	0.4
Project Seeds PS8922GT	85 Agrisure® GT	23.0	179.0	55.7	6.8	20.4	166.2	53.4	10.8	90	25.6	191.8	57.9	2.7
Project Seeds 8978GT	86 Agrisure® GT	22.9	177.8	54.3	1.1	20.9	141.4	52.3	1.0	91	24.8	214.2	56.3	1.1
Renk RK264RR	85 Roundup Ready® Com 2	24.2	198.3	52.4	0.5	20.7	170.2	50.4	0.5	88	27.7	226.3	54.4	0.4
RENK RK287VT2P	87 Genuity™ VT Double Pro™ RIB	25.4	220.0 *	52.7	1.4	22.4	195.6 *	50.5	2.0	86	28.3	244.3 *	54.9	0.8
RENK RK408VT2P	90 Genuity™ VT Double Pro™ RIB	26.1	216.0 *	51.4	1.6	24.1	195.4 *	49.3	2.4	92	28.0	236.5	53.4	0.7
Specinum 3617	86 Conventional	25.5	205.6 *	52.6	4.6	22.4	188.0	50.6	2.3	94	28.5	223.1	54.6	6.8
Wolf River Valley WRV 2882 Gt	82	19.2	155.9	51.8	0.0	19.2	155.9	51.8	0.0	97				
Wolf River Valley WRV 2785	85	21.1	146.7	52.4	1.9	21.1	146.7	52.4	1.9	93				
Wolf River Valley WRV 2693	93	22.4	199.1	50.3	0.4	22.4	199.1 *	50.3	0.4	95				
AVERAGE		23.9	199.5	52.6	2.2	22.1	182.2	50.9	2.4	91	26.6	224.7	54.8	2.0
HIGHEST		30.0	223.2	55.7	7.2	30.8	216.9	53.4	12.5	101	29.4	264.9	57.9	12.9
LOWEST		17.2	144.9	50.3	0.0	17.2	141.4	48.1	0.0	81	21.3	176.5	52.0	0.0
CV (%)		7.4	9.5	2.4	173.5	8.0	10.2	2.3	169.5	5	5.9	7.2	2.4	153.5
LSD (5%)		1.7	18.4	1.2	3.7	2.4	25.2	1.6	5.5	6	2.1	22.0	1.8	4.1

** Highest Yielding Hybrid

* Not Significantly Different from Highest Yielding Hybrid

2018 UPPER PENINSULA CORN PERFORMANCE TRIALS

*M.P. Singh, J. Lauer, M. Jean, C. Kapp,
W. D. Widdicombe and L. A. Williams*

Michigan Corn Performance Trials (MCPT), conducted by Michigan State University (MSU) has had a long history in the Upper Peninsula (UP). However, due to its low corn acreage, remote nature, diverse climate, and challenging landscape, the trial has lost relevancy over time to its local stakeholders. It is not possible for the MCPT to attract corn hybrid entries that are adapted to and commercially available in the UP, as most of these hybrids were entered in the Wisconsin Corn Performance Trials (WCPT) and not in the MCPT due to differences in regional sales districts for seed companies'.

In 2018, the MCPT team (Maninder Singh, Bill Widdicombe, and Lori Williams) in partnership with the UP team (UP Research and Extension Center Director, Monica Jean, and Christian Kapp) collaborated with the WCPT team (Joe Lauer) to conduct corn hybrid evaluation trials on a grower farm (Charlie Meintz, Pleasant View Dairy Farm) in Menominee County with entries from WCPT's Marinette County, WI location. Additionally, hybrid performance from the WCPT

location (representing an environment similar to the UP) is reported with permission from WCPT team. This collaboration was developed as part of an effort to improve the relevancy of MCPT trials in the UP, and was supported by funding from MSU AgBioResearch and MSU Extension. A minimum of 58 grain hybrids and 40 silage hybrids were planted at both locations, with additional entries at the UP location solicited from local seed dealers.

Methods and data presented for the Menominee location is similar to the grain and silage performance trials presented in this bulletin. Planting was accomplished using Winterstieger Plot King Planter on May 14 at a target seeding rate of 31,600 seeds/acre. Previous crop in the field (sandy loam soil) was corn. Corn silage and grain plots were harvested on September 9 and October 29, respectively. For more details on WCPT location in Marinette County, please refer to University of Wisconsin bulletin A3653 (available at <https://corn.agronomy.wisc.edu/HT/2018/2018Text.aspx>).

2018		TRIAL AVERAGE			Menominee			Marinette WI						
BRAND / HYBRID	RM TRAIT	%H2O	BU/A	Twt	%SL	%H2O	BU/A	Twt	%SL	%H2O	BU/A	Twt	%SL	
Brunner 2865GTA	86 Agrisure® GT	23.1	178.4	54.8	3.6	21.0	164.3	52.7	2.2	92	25.2	192.4	56.8	4.9
Brunner 2897GT-3010	89 Agrisure® 3010	23.8	211.8 *	53.4	3.4	21.9	199.5 *	51.0	1.0	83	25.7	224.0	55.7	5.7
Brunner 3915GT-3110	91 Agrisure Viptera® 3110	24.5	198.9	51.1	2.2	22.1	180.4	49.1	3.9	84	26.8	217.4	53.0	0.4
Byron Seeds 35C10	85	17.2	169.6	50.8	0.5	17.2	169.6	50.8	0.5	87				
Dairyland DS9686	86 Agrisure® 3000GT	24.7	188.4	53.9	3.7	21.5	154.0	52.1	5.1	95	27.9	222.8	55.6	2.3
Dairyland DS7294a	94 Agrisure Viptera® 3220	27.4	222.9 *	51.1	0.0	26.3	194.9 *	48.5	0.0	83	28.4	250.9 *	53.6	0.0
Dekalb DKC37-50RIB	87 Genuity™ VT Double Pro™ RIB	24.4	205.3 *	51.7	1.4	21.1	183.4	49.9	0.9	93	27.6	227.1	53.4	1.9
DuPont Pioneer P9188AM	91 Optimum® AcreMax®	25.3	223.2 **	51.8	1.6	23.9	216.9 **	49.1	1.3	98	26.6	229.4	54.5	1.9
DuPont Pioneer P9492AM	94 Optimum® AcreMax®	30.0	214.1 *	51.3	2.9	30.8	173.4	48.1	3.8	94	29.2	254.8 *	54.5	1.9
Federal Hybrids 3190VT2P	81 Genuity™ VT Double Pro™	20.3	196.9	54.6	2.0	19.2	186.1	52.5	2.4	90	21.3	207.7	56.6	1.5
Federal Hybrids 3570VT2PRIB	83 Genuity™ VT Double Pro™ RIB	22.4	186.8	54.1	2.7	19.5	159.1	52.5	4.3	81	25.3	214.5	55.6	1.1
Federal Hybrids 3660GT3011A	86 Agrisure® 3011	23.1	190.6	53.9	5.6	20.6	173.2	52.2	3.2	93	25.6	208.0	55.6	8.0
Federal Hybrids 3790VT2P	87 Genuity™ VT Double Pro™	24.1	218.5 *	53.1	2.6	21.6	208.1 *	50.9	1.4	92	26.6	228.9	55.2	3.8
Federal Hybrids 3880VT2PRIB	88 Genuity™ VT Double Pro™ RIB	24.8	206.2 *	52.3	0.0	22.8	194.5 *	49.9	0.0	90	26.7	217.9	54.6	0.0
Federal Hybrids 3890VT2P	89 Genuity™ VT Double Pro™	24.3	208.8 *	52.0	0.2	21.3	194.5 *	51.3	0.0	90	27.2	223.1	52.7	0.4
Federal Hybrids 4160VT2PRIB	91 Genuity™ VT Double Pro™ RIB	24.8	219.5 *	51.8	2.3	22.1	198.3 *	49.5	4.5	92	27.5	240.6	54.0	0.0
Federal Hybrids 4190VT2P	91 Genuity™ VT Double Pro™	25.1	212.5 *	51.9	0.5	22.0	204.4 *	49.7	1.0	91	28.1	220.5	54.0	0.0
Foundation Direct 8972	85 Conventional	23.8	206.7 *	54.9	3.2	20.9	190.8	52.6	3.7	94	26.6	222.5	57.2	2.6
Foundation Direct EXP088	88 Conventional	27.1	173.8	51.1	1.0	27.1	173.8	51.1	1.0	88				
Golden Harvest G78A02-3010 Brand	78	20.4	206.7 *	50.8	5.9	20.4	206.7 *	50.8	5.9	91				
Golden Harvest G80Q01-3110A Brand	80	20.8	144.9	51.7	2.7	20.8	144.9	51.7	2.7	95				
Golden Harvest G84J92-3011A.1 Brand	84	20.2	190.9	52.8	0.0	20.2	190.9	52.8	0.0	90				
InVision FS 35SV1 RIB	85 Genuity™ VT Double Pro™ RIB	23.1	187.9	52.6	2.7	20.8	171.7	51.4	1.5	91	25.4	204.0	53.7	3.8
InVision FS 37TV1 RIB	87 Genuity™ VT Double Pro™ RIB	22.8	209.4 *	54.2	0.4	20.4	194.6 *	51.2	0.0	90	25.2	224.2	57.1	0.8
InVision FS 41TV1 RIB	91 Genuity™ VT Double Pro™ RIB	25.8	219.3 *	51.3	2.2	24.0	178.3	49.0	4.4	89	27.6	260.3 *	53.5	0.0
Jung 4D178RIB	84 Genuity™ VT Double Pro™ RIB	23.1	201.3	53.7	2.0	20.3	183.0	52.2	0.5	93	25.9	219.5	55.1	3.4
Jung 36DP318	86 Genuity™ VT Double Pro™ RIB	24.9	203.8	53.6	1.8	21.9	190.8	50.8	2.4	89	27.9	216.8	56.3	1.1
Jung 37DP328	87 Genuity™ VT Double Pro™ RIB	23.7	202.9	53.4	2.3	20.3	175.7	51.8	3.0	88	27.1	230.1	55.0	1.5
Jung 39DP338	89 Genuity™ VT Double Pro™ RIB	24.2	221.5 *	51.9	0.2	21.7	200.6 *	50.3	0.4	93	26.7	242.3	53.5	0.0
Legacy Seeds L2245	82	20.5	182.2	52.2	3.0	20.5	182.2	52.2	3.0	86				
Legacy Seeds L2546	85	20.7	185.3	53.3	4.5	20.7	185.3	53.3	4.5	84				
Legacy Seeds L2817	86 Genuity™ VT Double Pro™ RIB	24.0	204.4	53.3	2.0	22.0	189.1	50.7	3.2	90	26.0	219.6	55.9	0.7
Legacy Seeds L2847	88 Genuity™ VT Double Pro™ RIB	25.5	218.9 *	51.9	0.5	24.2	199.6 *	48.9	0.5	89	26.7	238.2	54.9	0.4
Legacy Seeds L2937	89 Agrisure® 3010	26.4	216.2 *	51.3	0.2	25.8	195.2 *	48.6	0.0	99	26.9	237.2	53.9	0.4
Legacy Seeds L3017	90 Genuity™ VT Double Pro™ RIB	26.1	216.3 *	52.3	2.2	23.4	184.5	49.7	3.2	95	28.7	248.1 *	54.9	1.1
Legacy Seeds L3117	91 Genuity™ VT Double Pro™	26.6	201.9	51.6	1.5	25.9	187.5	48.9	2.5	88	27.3	216.3	54.3	0.4
Legend Seeds LR9882VT2PRIB	82 Genuity™ VT Double Pro™ RIB	21.3	174.1	53.8	4.8	18.7	150.7	52.7	3.5	92	23.8	197.4	54.8	6.1

Legend Seeds JSC40J684RR	84 Roundup Ready® Corn 2	22.9	202.6	55.0	7.2	20.8	198.7 *	53.3	1.4	92	25.0	206.5	56.6	12.9
LG Seeds LG30C02VT2RIB	80 Genuity™ VT Double Pro™ RIB	24.3	186.1	52.5	2.5	21.0	170.7	50.6	1.9	95	27.5	201.5	54.3	3.1
LG SEEDS LG5370VT2RIB	84 Genuity™ VT Double Pro™ RIB	21.1	178.5	54.5	3.1	20.0	160.8	51.7	0.5	89	22.2	196.1	57.2	5.7
LG SEEDS LG5375VT2RIB	85 Genuity™ VT Double Pro™ RIB	22.4	172.6	54.0	1.0	21.1	145.1	52.2	0.0	92	23.7	200.0	55.7	1.9
LG Seeds LG8C18VT2RIB	88 Genuity™ VT Double Pro™ RIB	25.2	203.7	51.4	0.8	22.7	174.6	49.3	1.5	87	27.7	232.8	53.4	0.0
Munson 4417GT	84 Agrisure® GT	23.5	171.6	54.2	2.4	20.9	166.6	52.9	2.1	96	26.1	176.5	55.4	2.7
Munson 4821RR	88 Roundup Ready® Corn 2	23.9	216.3 *	53.1	0.0	21.6	195.7 *	51.3	0.0	95	26.2	236.8	54.9	0.0
Munson 4830-3220EZ	88 Agrisure Viptera® 3220 E-Z Refuge®	24.9	207.6 *	51.4	1.9	23.6	203.7 *	48.9	2.3	97	26.2	211.5	53.9	1.5
Munson 5016VT2P	90 Genuity™ VT Double Pro™ RIB	24.7	210.9 *	51.0	1.4	21.6	192.1 *	49.9	1.9	90	27.7	229.6	52.0	0.8
Munson 5456VT2P	94 Genuity™ VT Double Pro™ RIB	28.4	213.9 *	51.9	0.6	28.4	202.8 *	48.5	0.0	85	28.4	225.0	55.3	1.1
NK Brand NK8881-3010A	88 Agrisure® 3010	24.2	214.1 *	51.6	2.8	22.1	185.6	49.4	4.5	92	26.2	242.5	53.8	1.1
NK Brand N27P-3110A	92 Agrisure Viptera® 3110	25.0	218.3 *	53.0	7.0	23.5	188.2	51.4	12.5	87	26.4	248.3 *	54.5	1.5
DAIRYLAND SEED RPM-2918AM	85 Optimum® AcreMax®	22.4	202.1	51.7	1.4	19.8	173.2	50.7	1.6	81	24.9	231.0	52.6	1.1
PIP 3888	88 Agrisure® 3010	24.1	214.6 *	53.1	3.3	22.2	185.0	51.1	5.8	83	25.9	244.1 *	55.0	0.7
ProHarvest X18320VT2P	87 Genuity™ VT Double Pro™	23.2	197.6	52.7	1.5	20.7	181.8	50.9	2.2	101	25.7	213.4	54.5	0.7
ProHarvest 4255STAXRIB	92 Genuity™ SmartStax™ RIB	26.4	218.9 *	52.3	0.4	24.8	182.4	50.5	0.0	91	28.0	255.4 *	54.1	0.8
ProHarvest 4340VT2PRIB	93 Genuity™ VT Double Pro™ RIB	27.8	222.9 *	51.8	5.0	26.2	180.9	49.1	9.6	86	29.4	264.9 **	54.5	0.4
Project Seeds PS8922GT	85 Agrisure® GT	23.0	179.0	55.7	6.8	20.4	166.2	53.4	10.8	90	25.6	191.8	57.9	2.7
Project Seeds 8978GT	86 Agrisure® GT	22.9	177.8	54.3	1.1	20.9	141.4	52.3	1.0	91	24.8	214.2	56.3	1.1
Renk RK264RR	85 Roundup Ready® Corn 2	24.2	198.3	52.4	0.5	20.7	170.2	50.4	0.5	88	27.7	226.3	54.4	0.4
RENK RK287VT2P	87 Genuity™ VT Double Pro™ RIB	25.4	220.0 *	52.7	1.4	22.4	195.6 *	50.5	2.0	86	28.3	244.3 *	54.9	0.8
RENK RK408VT2P	90 Genuity™ VT Double Pro™ RIB	26.1	216.0 *	51.4	1.6	24.1	195.4 *	49.3	2.4	92	28.0	236.5	53.4	0.7
Spectrum 3617	86 Conventional	25.5	205.6 *	52.6	4.6	22.4	188.0	50.6	2.3	94	28.5	223.1	54.6	6.8
Wolf River Valley WRV 2882 Gt	82	19.2	155.9	51.8	0.0	19.2	155.9	51.8	0.0	97				
Wolf River Valley WRV 2785	85	21.1	146.7	52.4	1.9	21.1	146.7	52.4	1.9	93				
Wolf River Valley WRV 2693	93	22.4	199.1	50.3	0.4	22.4	199.1 *	50.3	0.4	95				
AVERAGE		23.9	199.5	52.6	2.2	22.1	182.2	50.9	2.4	91	26.6	224.7	54.8	2.0
HIGHEST		30.0	223.2	55.7	7.2	30.8	216.9	53.4	12.5	101	29.4	264.9	57.9	12.9
LOWEST		17.2	144.9	50.3	0.0	17.2	141.4	48.1	0.0	81	21.3	176.5	52.0	0.0
CV (%)		7.4	9.5	2.4	173.5	8.0	10.2	2.3	169.5	5	5.9	7.2	2.4	153.5
LSD (5%)		1.7	18.4	1.2	3.7	2.4	25.2	1.6	5.5	6	2.1	22.0	1.8	4.1

** Highest Yielding Hybrid

* Not Significantly Different from Highest Yielding Hybrid

2018 Corn Silage		TRIAL AVERAGE										Menominee											
BRAND / HYBRID	RM TRAIT	% QUALITY					YIELD					% QUALITY					YIELD						
		%DM	GT/A	DT/A	NDF	NDFD	STR	MK/A	MK/A	DT/A	%ST	%DM	GT/A	DT/A	%ST	IVD	ADF	NDF	NDFD	CP	STR	MK/A	MK/A
Byron Seeds KF43C40	93	33.2	27.2	9.0	39.1	57.7	33.4	3302	29607	34.1	21.6	8.9	86	85	82.0	19.0	36.5	48.7	7.5	38.9	3274	24854	
Byron Seeds KF49C60	99	32.6	29.9	9.6	39.6	55.3	33.3	3291	31571	34.8	26.1	9.1	84	85	81.7	19.1	36.5	49.8	7.5	39.4	3324	27515	
Channel 192-985TXRIB	98	44.3	18.8	8.2	39.1	57.5	35.4	3329	27097	44.2	16.7	7.4	85	85	83.2	18.2	35.8	53.2	7.5	41.2	3393	24947	
Dairyland HiDF3188-6	88	40.2	23.2	9.9	38.2	56.3	36.8	3369	33408	43.2	17.2	9.0	82	82	82.1	19.4	37.0	51.5	7.4	41.1	3314	29713	
Dairyland HiDF3290-9	90	35.8	27.9	9.9	37.8	57.2	35.9	3393	33592	36.5	25.3	9.3	88	88	84.0	15.0	33.8	52.6	7.4	42.4	3457	32088	
Dairyland HiDF3197RA	97	36.8	25.6	9.3	36.9	56.2	36.4	3378	31221	39.7	22.1	8.8	86	86	83.2	17.3	33.9	50.6	7.2	42.7	3412	29942	
DeKalb DKC42-05RIB	92	36.3	28.3	9.7	38.6	55.0	34.6	2778	26386	40.7	20.6	8.3	86	86	82.5	18.0	34.7	49.5	6.9	42.4	3364	28035	
Federal Hybrids 4160VT2PRIB	91	39.6	22.0	8.7	35.1	55.4	38.7	3413	29600	44.3	20.9	9.3	92	92	85.0	14.1	29.7	49.6	7.3	48.2	3554	32940	
Federal Hybrids 4190VT2P	91	35.1	25.1	8.7	39.1	56.8	34.0	3282	28602	35.8	23.6	8.4	88	88	83.4	17.8	35.0	52.5	7.5	41.7	3408	28757	
Federal Hybrids 4680VT2PRIB	96	34.8	26.8	9.3	37.2	55.0	35.9	3323	30588	34.0	24.6	8.5	85	85	83.6	17.0	33.8	51.5	7.5	42.3	3431	28709	
Golden Harvest G90Y04-3220A-EZ1 Brand	90	41.5	21.6	8.9	35.5	54.7	39.4	3415	30477	44.4	17.0	7.8	85	85	83.9	15.8	32.0	49.7	7.2	46.7	3466	27164	
Golden Harvest G98L17-3000GT Brand	98	35.7	22.3	7.8	38.7	56.3	35.6	3327	25940	33.5	20.8	6.9	85	85	84.3	16.4	33.6	53.0	7.5	43.7	3475	23927	
InVision FS 37TV1 RIB	87	33.5	25.3	8.6	38.3	55.9	31.5	3243	27683	34.8	22.1	8.1	90	90	81.2	16.5	34.0	53.4	7.2	37.7	3459	28076	
InVision FS 41TV1 RIB	91	37.8	23.1	8.6	38.0	56.2	36.3	3394	29213	40.2	20.3	8.2	91	91	82.5	18.1	35.2	50.3	7.3	41.7	3357	27377	
InVision FS 43RA1 EZR	93	40.8	22.7	9.1	34.1	56.3	39.7	3442	31222	42.2	20.3	8.3	89	89	83.8	16.8	33.0	50.9	7.2	43.5	3453	28683	
InVision FS 45SV1 RIB	95	40.3	24.7	9.7	36.1	56.5	36.6	3460	33423	43.2	21.8	9.3	91	91	82.6	15.7	32.2	52.8	6.5	41.3	3526	32606	
Jung 4D178RIB	84	32.6	30.3	9.6	38.8	55.3	34.5	2808	26844	35.8	25.3	9.1	86	86	83.2	17.4	34.7	51.6	7.4	41.3	3401	30854	
Jung 42DP419	92	34.5	29.2	10.0	35.3	57.9	37.8	3514	35249	36.1	27.8	10.0	89	89	84.8	16.0	32.2	52.9	7.6	43.0	3521	35326	
Jung 7S378RIB	94	41.4	23.4	9.6	36.2	55.9	38.2	3393	32454	43.9	20.8	9.1	84	84	84.8	15.3	31.5	51.8	7.2	46.2	3528	32132	
Legacy Seeds L2847	88	35.2	27.1	9.4	38.1	55.8	35.6	3358	31663	37.5	23.3	8.7	86	86	82.7	17.9	35.4	51.2	6.7	41.2	3371	29330	
Legacy Seeds L2937	89	41.4	23.6	9.7	38.4	54.7	35.5	3293	31893	44.3	20.5	9.4	86	86	83.1	19.5	34.5	51.1	7.2	42.3	3401	31790	
Legacy Seeds L3335	93	36.7	25.5	9.3	38.9	54.9	34.9	3286	30453	37.5	23.8	9.0	91	91	82.5	18.7	36.6	52.2	7.1	40.2	3346	30004	
Legacy Seeds L3547	95	36.1	27.6	10.3	36.9	55.7	36.2	2816	28567	37.0	24.8	10.0	86	86	83.8	16.8	33.4	51.1	7.6	42.2	3445	34452	
LG Seeds LG8C18VT2RIB	88	36.6	25.4	9.1	36.2	57.5	37.5	3485	31820	39.0	19.7	7.6	86	86	82.9	17.3	35.9	52.2	7.4	40.3	3374	25653	
LG SEEDS LG5410VT2RIB	91	33.8	27.1	9.1	37.8	57.3	35.2	3374	30759	34.6	23.4	8.1	87	87	83.9	18.3	36.0	52.5	7.4	40.1	3370	27270	
LG SEEDS LG44C2VT2PRO	94	35.8	28.6	10.0	39.4	57.1	34.6	3328	33302	39.0	24.2	9.4	84	84	82.1	17.9	35.9	52.8	7.1	41.5	3384	31812	
LG SEEDS LG44C34-3110	94	36.8	27.1	9.9	35.6	56.7	37.6	3401	33636	37.1	24.9	9.2	83	83	83.9	16.2	32.7	50.7	7.4	43.8	3460	31845	
Masters Choice MCT2552 VIP3110	75	48.4	14.7	7.1	36.2	56.9	36.5	3388	23834	52.8	11.5	6.3	88	88	83.3	16.0	32.5	53.1	8.3	40.3	3505	22142	
Masters Choice MCT3891 GT	88	38.4	22.8	8.9	40.3	54.1	33.3	3207	28430	37.5	22.1	8.6	85	85	81.5	19.6	37.1	50.2	7.3	39.2	3282	28244	
Masters Choice MCT4572 VIP3110	95	40.1	22.9	9.2	38.2	55.0	35.7	3298	30280	40.6	20.4	8.3	83	83	82.5	18.1	35.7	50.9	7.5	40.9	3349	27794	
NK Brand NK8618-3011A	88	33.9	28.3	9.5	39.3	53.4	33.4	3266	30892	36.0	23.1	8.3	82	82	80.9	19.8	37.7	49.2	7.1	37.0	3239	26722	
NK Brand N2P-3110A	92	31.7	26.6	8.5	39.3	54.9	33.4	3270	27736	31.2	23.1	7.3	88	88	82.9	20.3	34.9	51.3	7.4	40.6	3384	24659	
NK Brand NK9227-3220A	92	38.7	24.9	9.6	40.1	53.9	33.1	3144	30267	38.4	24.1	9.2	86	86	80.7	20.4	38.4	49.6	6.7	38.1	3223	29852	
NK Brand NK9505-3110	95	37.9	26.3	9.8	35.8	58.7	38.6	3484	34117	41.4	22.3	9.2	94	94	85.0	15.7	32.0	53.2	7.1	46.3	3537	32663	
Prairie Hybrids 418	97	38.4	26.0	10.2	36.2	55.0	38.2	3377	34442	37.5	22.4	8.8	85	85	83.1	16.8	32.9	48.8	7.1	44.7	3413	30200	
VIKING 71-90GS	90	33.9	27.3	9.2	38.6	57.2	35.0	3348	30830	35.6	22.7	8.1	90	90	82.2	19.0	36.6	51.5	7.0	40.3	3330	27035	
Viking 42-92	92	37.2	25.2	9.2	37.7	56.0	35.8	3305	30475	38.6	21.9	8.4	86	86	83.0	17.8	35.1	51.6	7.3	41.3	3391	28702	
Wolf River Valley WRV 2882 GT	82	48.4	30.3	10.3	40.3	58.7	39.7	3514	35249	52.8	27.8	10.0	94	94	85.0	27.8	49.1	55.2	8.3	48.2	3554	35326	
Wolf River Valley WRV 2387L RR	87	31.7	14.7	7.1	34.1	53.4	31.5	2778	23834	28.6	11.5	5.1	54	54	79.0	14.1	29.7	48.7	6.5	27.7	2905	16433	
Wolf River Valley WRV 3988FL RR	88	8.5	13.7	9.9	8.8	3.8	11.5	12	18	6.0	7.8	9.1	4	4	2.7	12.9	10.3	3.6	6.3	12.2	4	10	
AVERAGE		3.0	3.3	0.9	3.2	2.0	3.9	394	5194	3.2	2.3	1.1	5	5	3.1	3.1	4.9	2.5	0.6	6.9	202	3764	
HIGHEST																							
LOWEST																							
CV (%)																							
LSD (5%)																							

** Highest Yielding Hybrid
 * Not Significantly Different from Highest Yielding Hybrid

2018 Corn Silage		Marinette WI							
BRAND / HYBRID	RM TRAIT	YIELD		% QUALITY		MILK 2006 MK/T MK/A			
		%DM GT/A	DT/A	NDF	NDFD STR				
Byron Seeds KF43C40	93	31.7	30.6	9.7	41.2	63.4	27.4	3279	31699
Byron Seeds KF49C60	99	30.3	33.7	10.1	42.7	60.7	27.2	3284	33228
Channel 192-98STXRIB	92 Genuity™ SmartStax™ RIB	44.4	20.9	8.9	42.4	61.7	29.5	3266	29247
Channel 198-98STXRIB	98 Genuity™ SmartStax™ RIB	37.1	29.1	10.8 *	39.4	61.0	32.5	3424	37102
Dairyland H1DF3188-6	88 Roundup Ready® Corn 2	35.0	30.4	10.5 *	41.7	61.7	29.3	3329	35096
Dairyland H1DF3290-9	90 Agrisure® 3000GT	33.9	29.0	9.7	39.8	61.7	30.0	3343	32501
Dairyland H1DF3197RA	97 DAS SmartStax™ plus RIB	31.9	35.9	11.0 *	42.5	60.4	26.8	2193	24738
Dekalb DKC42-05RIB	92 Genuity™ VT Double Pro™ RIB	34.9	23.0	8.0	40.4	61.2	29.2	3273	26260
Federal Hybrids 4160VT2PRIB	91 Genuity™ VT Double Pro™ RIB	34.4	26.6	9.0	43.2	61.0	26.2	3157	28447
Federal Hybrids 4190VT2P	96 Genuity™ VT Double Pro™ RIB	35.6	28.9	10.1	40.6	58.5	29.5	3215	32467
Federal Hybrids 4680VT2PRIB	90 Golden Harvest G90Y04-3220A-EZ1 Brand	38.5	26.1	10.0	39.0	59.6	32.1	3365	33791
Golden Harvest G90Y04-3220A-EZ1 Brand	98 Golden Harvest G98L17-3000GT Brand	37.9	23.8	8.7	43.8	59.5	27.4	3180	27952
InVision FS 37TV1 RIB	87 Genuity™ VT Double Pro™ RIB	32.1	28.5	9.1	42.5	58.4	25.2	3027	27290
InVision FS 41TV1 RIB	91 Genuity™ VT Double Pro™ RIB	35.3	25.9	9.0	40.7	62.0	30.9	3431	31050
InVision FS 43RA1 EZR	93 Agrisure Viptera® 3220 E-Z Refuge®	39.4	25.0	9.8	35.1	61.7	35.8	3431	33761
InVision FS 45SV1 RIB	95 Genuity™ VT Double Pro™ RIB	37.3	27.6	10.0	40.0	60.1	31.9	3394	34239
Jung 4D178RIB	84 Genuity™ VT Double Pro™ RIB	29.3	35.2	10.1	42.9	59.0	27.7	2214	22834
Jung 4D2P419	92 Genuity™ VT Double Pro™ RIB	32.9	30.5	10.0	38.4	62.8	32.5	3508	35171
Jung 7S378RIB	94 Genuity™ SmartStax™ RIB	38.8	26.0	10.1	40.8	60.0	30.1	3259	32775
Jung 46SS428	96 Genuity™ SmartStax™ RIB	32.9	30.8	10.1	40.7	60.4	29.9	3345	33996
Latham 3755VT2PRO	87 Genuity™ VT Double Pro™ RIB	38.4	26.7	10.0	42.2	58.3	28.7	3185	31997
Latham 4242VT2PRO	92 Genuity™ VT Double Pro™ RIB	35.8	27.2	9.6	41.1	57.5	29.5	3226	30902
Legacy Seeds L2847	88 Genuity™ VT Double Pro™ RIB	35.1	30.3	10.6 *	40.4	60.2	30.2	2187	22683
Legacy Seeds L2937	89 Agrisure® 3010	34.1	31.0	10.6 *	36.4	62.8	34.7	3597	37988
Legacy Seeds L3335	93 Agrisure Viptera® 3110	33.0	30.7	10.1	39.6	62.1	30.3	3378	34247
Legacy Seeds L3547	95 Agrisure Viptera® 3110	32.5	33.0	10.6 *	42.9	61.3	27.6	3272	34792
LG Seeds LG8C18VT2RIB	88 Genuity™ VT Double Pro™ RIB	36.4	29.3	10.6 *	38.5	62.6	31.4	3341	35427
LG SEEDS LG5410VT2RIB	91 Genuity™ VT Double Pro™ RIB	43.9	17.8	7.8	39.9	60.7	32.6	3271	25526
LG SEEDS LG44C2VT2PRO	94 Genuity™ VT Double Pro™ RIB	48.7	19.8	9.5	42.6	0.0	30.2	3049	29206
LG SEEDS LG44C34-3110	94 Agrisure Viptera® 3110	39.2	23.4	9.1	43.5	58.0	27.3	3132	28616
Masters Choice MCT2552 VIP3110	75 Agrisure Viptera® 3110	45.2	22.0	9.9	41.1	0.0	30.9	3143	31102
Masters Choice MCT3891 GT	88 Agrisure® GT	39.6	25.4	10.1	40.7	59.0	30.4	3248	32766
Masters Choice MCT4572 VIP3110	95 Agrisure Viptera® 3110	31.7	33.5	10.6 *	40.9	57.5	29.7	3292	35062
NK Brand NK8618-3011A	88 Agrisure® GT	32.2	30.0	9.6	43.6	58.4	26.2	3156	30812
NK Brand NK8881-3010A	88 Agrisure® 3010	39.0	25.7	10.0	41.7	58.1	28.1	3065	30682
NK Brand N27P-3110A	92 Agrisure Viptera® 3110	34.4	30.3	10.4 *	39.5	64.1	30.8	3431	35571
NK Brand NK9227-3220A	92 Agrisure Viptera® 3220 E-Z Refuge®	39.3	29.5	11.5 **	39.5	61.2	31.6	3341	38684
NK Brand NK9505-3110	95 Agrisure Viptera® 3110	32.2	31.9	10.3 *	40.6	62.8	29.7	3365	34625
Prairie Hybrids 418	97 Conventional								
VIKING 71-90GS	90 Conventional								
Viking 42-92	92 Conventional								
Wolf River Valley WRV 2882 Gt	82								
Wolf River Valley WRV 2387L RR	87								
Wolf River Valley WRV 3988FL RR	88								
AVERAGE		36.2	28.0	9.9	40.9	60.5	29.8	3200	31693
HIGHEST		48.7	35.9	11.5	43.8	64.1	35.8	3597	38684
LOWEST		29.3	17.8	7.8	35.1	57.5	25.2	2187	22683
CV (%)		8.4	13.6	9.5	7.3	3.6	11.0	17	21
LSD (5%)		4.1	5.2	1.3	4.0	3.0	4.4	749	9171

University of Wisconsin-Extension Dairy Team

Better Heifers, Better Cows

Making Wisconsin's heifer industry strong & competitive through university-based research and education.

Friday, February 22

Liberty Hall Conference Center
800 Eisenhower Drive, Kimberly

Meeting Details

Registration: 9:30 am
Meeting: 10 am to 3 pm

Registration Fee:
\$40 per person early registration fee (includes lunch & materials)

\$10 additional fee will be charged after February 15th



- ◆ **Cockscrew Claw Syndrome—An Unexpected Challenge!**
Nigel Cook, DVM, UW-School of Veterinary Medicine
- ◆ **Strategic Use of Sexed and Beef Semen on Heifers for Maximum Profitability**
Victor Cabrera, Extension Specialist in Dairy Farm Management, UW-Madison
- ◆ **Managing Heifer Inventory to Save Costs**
Matt Akins, Extension Dairy Specialist, UW-Madison
- ◆ **Effects of Sorting Characteristics and Pen Overstocking on the Growth Performance of Pregnant Dairy Heifers**
Wayne Coblenz, Researcher, US Dairy Forage Research Center
- ◆ **The Forgotten Herd—Housing the Growing Heifer**
Nigel Cook, DVM, UW-Madison School of Veterinary Medicine

An EEO/AA employer, University of Wisconsin-Extension provides equal opportunities in employment & programming, including Title VI, Title IX and the Americans with Disabilities (ADA) requirements.

2019 Better Heifers, Better Cows Meeting Registration

Name(s): _____

Company: _____ Telephone: _____

Address: _____ City/State/ZIP: _____

Email address (for a direct mailing in future years): _____

Registration:	_____ People x \$40 per person (includes meals & materials)	=	\$ _____
	_____ Additional Walk-in/Late Fee after February 15 x \$10 per person	+	\$ _____
	Total Enclosed:	=	\$ _____

Make Check Payable to: UW-Extension Fond du Lac County
Mail to: UW-Extension Fond du Lac County
 400 University Drive, Room AE-227
 Fond du Lac, WI 54935
Or call: 920.929.3171

Credit card payment for registration available, small surcharge applied. Please call for this option.

Registration due Friday, February 15th or a \$10 per person Late/Walk-in fee will be added.



Supporting and strengthening the Midwest dairy industry through awareness, understanding, and adoption of innovative manure handling processes.

2.27.19 | LAMBEAU FIELD ATRIUM

AGENDA

- 9:00 am Registration and Refreshments
- 9:30 am Doors open and Welcome
- 9:45 am **Selecting Appropriate Manure Technology**
Becky Larson, UW-Madison & UW-Extension
- 10:30 am **Manure Phosphorus Extraction System**
Clinton Church, USDA-ARS Pennsylvania
- 11:15 am Breakout Sessions (Choose 1)
Recovering Ammonia from Manure as Fertilizer
Shulin Chen, Washington State University
Phosphorus Trade-Offs With No-Till: What if Manure Had No Phosphorus?
John Chastain, Clemson University
- 12:00 pm Lunch
Manure Management Outlook
Sara Walling, UW-Extension
- 12:45 pm **Successes and Challenges Panel**
- 2:00 pm Break
- 2:30 pm **Groundwater Update**
Mark Borchardt, USDA-ARS Wisconsin
- 3:15 pm **Controlling Antibiotic Resistance and Bacterial Pathogens in Manure**
John Brooks, USDA-ARS Mississippi
- 4:00 pm **Closing Remarks**

FEBRUARY 27

FINANCIAL SUPPORT PROVIDED BY:



**Midwest
Manure
Summit**

<http://midwestmanure.org>

Ask us how you can be a part of this event!

FEBRUARY 27, 2019

Lambeau Field Atrium
1265 Lombardi Ave | Green Bay, WI



UW
Extension
University of Wisconsin-Extension

MORE INFORMATION

Visit <http://midwestmanure.org>

- OR - Contact:

Liz Binversie
UWEX Brown County
920.391.4612
elizabeth.binversie@uwex.edu

Stephanie Plaster
UWEX Ozaukee & Washington Co
262.335.4477
stephanie.plaster@uwex.edu

NAME(S)

FARM/BUSINESS

ADDRESS

CITY / STATE / ZIP

PHONE NUMBER

E-MAIL ADDRESS

REGISTRATION FEES

- \$125 Early Bird Fee (before Feb 1)
- \$145 Registration Fee (after Feb 1)

MAIL FORM & PAYMENT TO:

Midwest Manure Summit
Room 227 Administrative/Extension Building
400 University Dr
Fond du Lac, WI 54935

- Check - Payable to UW-Extension
- VISA* Mastercard* *Credit card payment subject to \$6 convenience fee per registrant

*Credit card payment may be called in to (920) 929-3171

CARD NUMBER

EXPIRE

SIGNATURE



FEBRUARY 27

**Midwest
Manure
Summit**

<http://midwestmanure.org>

PRIVATE PESTICIDE APPLICATOR TRAINING

Florence, Marinette and Oconto Counties

You have two options to become certified or recertified as a private pesticide applicator. The first is to attend one of the private pesticide applicator training programs conducted by UW-Extension and then satisfactorily complete the evaluation at the end of that session. The second is to study the materials on your own and arrange to take the test in either Marinette or Florence. Either method has a \$40 fee which covers the five years of the license period.

A minimum score of 50 percent must be achieved on the evaluation administered at the end of the training. **Those choosing the test only option must score 70 percent.** The test is open book and you are allowed 2 hours, with retakes (if necessary) at no extra cost.

There are three training & test sessions which will be held in our immediate area this season:

Wednesday, December 19	Pound Town Hall (east edge of Coleman on Hwy. B)
Wednesday, January 16	Pound Town Hall (east edge of Coleman on Hwy. B)
Thursday, February 21	Lena Town Hall (corner of Goatsville & Jagiello), please note there is a small chance this date will change.

Training sessions will begin at 10 a.m. Most participants are done around 3p.m.

You are welcome to come early and discuss any type of crop management issue with Scott as he gets the room and materials ready for the training, he is usually there by 9:30 at the latest.

-Is the Private Applicator Training the right category for me??

If you answer yes to any of the questions below, you should become certified in the correct Commercial Pesticide Applicator category call Scott Reuss at the Marinette office, 715-732-7510 to find out the logistics of that process:

- Do you custom spray on more than 500 acres OR for more than 3 other producers?
- Do you custom bale and apply propionic acid on more than 500 baled acres?
- Do you apply restricted-use pesticides to ANY of your own non cropland acreage?

To sign up for one of the sessions or to have the materials sent to you for self-study (Write in self-study somewhere below.) purposes, return the form below with your check for \$40. If you have questions not answered here regarding the training or the difference between private and commercial applicator certification, contact Scott Reuss, Marinette County Agricultural Agent, 715-732-7510 or toll-free at 1-877-884-4480.

Name _____
Mailing Address _____
City _____ Zip _____
Telephone _____

Please circle the date of the program you are planning on attending and then send your registration and check, or stop by the Marinette County UW-Extension office and pick up your materials in person. Make checks payable to UW-Extension (\$40 per person).

Pound Town Hall
Wednesday, Dec. 19

Pound Town Hall
Wednesday, January 16

Lena Town Hall
Thursday, Feb. 21

Send check & registration to:
Marinette County UW-Extension
1926 Hall Avenue
Marinette, WI 54143

Calculating 2019 Crop Production Costs: Helping make rotation, land rent, and similar decisions.

Friday, January 11 @ the Lena Town Hall (6087 Goatsville Road at the intersection of Goatsville & Jagiello Roads NW of Village of Lena)

\$5 registration for lunch, payable at door

Pre-registration appreciated, call 715-732-7510 or e-mail scott.reuss@ces.uwex.edu
Bring along a laptop if you have one, to be able to punch your own numbers

9:45 a.m. Registration and refreshments

10 a.m. to Noon Putting sound numbers to 2019 production costs

Noon – Lunch

12:45 – 2:30 p.m. Making adjustments to production costs

without affecting yield potential – Reality or pipe dream?

We will analyze all the different inputs and calculate our area's average cost of production for our primary crops, and you will be able to plug your own numbers in to be able to compare. After lunch, we will analyze different scenarios to see if different management practices may make sense in 2019 and how the changes can affect costs and potential.

Dairy Situation and Outlook, December 19, 2018 - abridged

By Bob Cropp, Professor Emeritus, UW-Extension & UW-Madison

This year, despite a lower growth in milk production, up just 0.7% in October and 0.6% in November, the Class III price has fallen each month since the peak of \$16.09 in September. December Class III is estimated to be around \$13.85 making the average for the year around \$14.60, the lowest average of the past four years. This will make the average over the past four years of only about \$15.35. This decline in milk prices towards the end of the year was not expected. December CME butter and cheese prices will average lower than November. Butter could average about \$0.04 lower. Barrel & Block cheese could average about four cents lower. But, the price of nonfat dry milk could average two cents and one cent higher than November.

U.S. dairy exports, which have been running above year ago levels, were virtually flat in October, undermined by a continued loss of sales to China since implementation of retaliatory tariffs. Total October exports were equivalent to 15.3% of U.S. milk production on a total milk solids basis making year-to-date equal to 16.3% of milk production. Relatively high stock levels are also responsible for lower dairy product prices and milk prices. October 31st butter stocks were 5.9% higher than a year ago. Total cheese stocks were 8.2% higher than a year ago. Dry whey and nonfat dry milk stocks were just over 20% lower than a year ago.

Milk prices for 2019 hinge heavily upon the level of milk production and dairy exports. Forecasted milk production, domestic sales and dairy exports point to improved milk prices in 2019, but how much improvement? Cow numbers are likely to continue to decline into 2019. The increase in milk per cow has slowed to 1.0%. USDA's December forecast has milk production for 2019 increasing 1.3% from 20,000 fewer milk cows producing 1.5% more milk per cow. This level of increased milk production normally would be positive for milk prices. But, production could turn out lower if cow numbers fall by more. A wet spring and fall reduced silage/forage quality which could reduce the increase in milk per cow. It looks like growth in the economy may slow some in 2019, but still be conducive to increased butter and cheese sale. Unless the trade dispute with China and Mexico ends dairy exports will likely fall below 2018 and dampen the improvement in milk prices. Some are forecasting a Class III below \$15 first quarter of the year, in the low \$15's second quarter, the mid-\$15's second quarter and low \$16's fourth quarter for average of no more than \$1 higher than the forecasted \$14.60 average for 2018. But, it is not without the possibility that prices could better than this with Class reaching the high \$16's or low \$17's by fourth quarter.

Revenue Protection – DRPP and Crop Insurance

Friday, February 1 @ the Lena Town Hall (6087 Goatsville Road at the intersection of Goatsville & Jagiello Roads NW of Village of Lena)

\$5 registration fee – includes lunch

Pre-registration appreciated, call 715-732-7510 or e-mail scott.reuss@ces.uwex.edu

Planned Schedule: 9:30 a.m. Registration and refreshments

10 a.m. to Noon Dairy Revenue Protection Program

Learn about the Dairy Revenue Protection program, a new federal insurance tool, with a quarterly payout to dairy farms when milk revenue falls below their insured revenue level. Mark Stephenson, Director of the UW-Center for Dairy Profitability, will provide a comprehensive overview of the Dairy Revenue Protection program and updates to the FSA Dairy Margin Protection Program (MPP), as another tool for dairy farmers when milk prices are low. Important changes to the MPP (including the name, as it is now the DMC – Dairy Margin Coverage) have been passed in the new Farm Bill that may make this program worth a second look.

The discussion will cover the following specific information for dairy farmers considering the program:

- New Dairy Revenue Protection (RP) program structure and function
- Overview of Dairy programs RP, DMC, and Livestock Gross Margins (LGM)
- FSA implementation
- Expected returns
- Decision making tool & calculations

Noon to 12:45 Lunch and discussion

12:45 to 2:30 p.m. Crop Insurance for 2019

Crop Insurance changes in the just-passed Farm & Food Bill are not huge, but there will be some changes to programs and there will also be changes to expected premiums for 2019. Join Scott Reuss for this side of revenue protection – forage and grain crops. We'll review all the policy types to make sure you are aware of what is truly available. Then, we will compare usage of these differing policies and how you can consider using either new opportunities or new approaches to best protect all types of crop production in 2019.

UW-Extension provides equal opportunities in employment and programming, including Title VI, Title IX and ADA. Please contact Nancy or Scott at 715-732-7510 if you need any type of accommodation or assistance to attend this program, at least 24 hours in advance. All requests are confidential.

Other Dairy Revenue Protection Program Workshops in our area:

Jan. 31, 2019, 10 a.m. - Green Bay, Neville Public Museum, 210 Museum Pl, Green Bay, WI. (lunch and afternoon program to follow) Contact: Liz Binversie, Brown County UW-Extension, (920) 391-4612

Jan. 31, 2019, 1 p.m. - New London, Crystal Falls Banquet Hall, 1500 Handschke Drive, New London, WI (noon lunch). Contact: Greg Blonde, Waupaca County UW-Extension greg.blonde@ces.uwex.edu or (715) 258-6231 or Sarah Grotjan, Outagamie County UW-Extension sarah.grotjan@ces.uwex.edu or (920) 832-5129

Feb. 13, 2019, 1 p.m. - Lincoln County Service Center - Assembly Room in the Upper Level, 801 North Sales Street, Merrill, WI. Contact: Dan Marzu Lincoln County UW-Extension, (715) 539-1072