



Extension

UNIVERSITY OF WISCONSIN-MADISON  
OUTAGAMIE COUNTY  
WINNEBAGO COUNTY

# Agriculture Report

## February 2024

Greetings All,

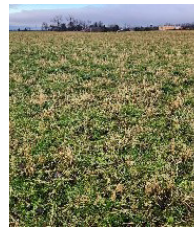
As a Regional Crops and Soils Educator, it would be hard to begin this correspondence with anything but the weather as of late. The meteorologist warned us that there would be a strong El Niño influence as we headed into the winter months. Well, they were right from the standpoint that the 50 F degree temperatures in December convinced our alfalfa to break dormancy and begin growing once again. Fortunately, we received significant snowfall ahead of the 60 F degree temperature swing down to -10 F degrees. We have interrupted alfalfa dormancy at least once during the past several years, however, it usually happens after the start of the new year, so, late 2023 was different in that regard. The accumulated snowfall has been quickly eroding exposing winter wheat, cereal rye, winter triticale, and other perennial crops like alfalfa to the elements.



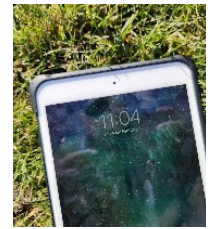
Earthworms on 12/26/23



Alfalfa Green-up on 12/26/23



Alfalfa Field on 12/26/23



Lawn actively growing on 2-1-24

Again, we have been here before, but as I write this, it is currently 46 F degrees, which means by time you receive this, little, if any, snow cover will likely exist across our agricultural fields. We cannot do anything other than monitor and adjust. If conditions persist, the Outagamie Forage Council may plan a spring meeting to discuss concerns and any management strategies for the 2024 growing season.

"It's the economy, stupid"... back in 1992 (yes, 32 years ago), long before email, social media, and 24 hour news & 100+ television stations, if someone said something striking, it made headlines and stuck around. Today our attention span is spread so thin that how we consume and process information requires discerning eyes and ears. We know perennial issues like labor, environmental requirements and regulations, etc... are concerns farmers are always dealing with. As we begin 2024, loan interest rates, milk/commodity prices, operating costs, and an innumerable number of other challenges await. Margins on corn, soybean, and winter wheat are going to be significantly slimmer than the previous few years. Understanding your cost of production is vital as we head into 2024 because there may be limited opportunities to lock in profitable prices for many agricultural commodities. Updated 2024 Crop Enterprise Budgets in Excel spreadsheets are available at the Extension Outagamie website <https://outagamie.extension.wisc.edu/>. I have included a sample corn grain budget from the Excel file and a blank print copy of a corn budget that you can compare to the sample and fill in your own numbers to see what adjustments you may need to make ahead of the 2024 planting season. It is nice to see milk prices moving in a positive direction lately, maybe the other commodities will do the same. As always, if there is anything Extension Outagamie can do to help or support your decision making processes, please do not hesitate to call or email me. Think spring!

*Kevin Jarek*

Crops and Soils Educator  
Outagamie and Winnebago Counties

3365 W Brewster St, Appleton, WI 54914  
920-832-5121 | [outagamie.extension.wisc.edu](https://outagamie.extension.wisc.edu)

# Upcoming Events

## February

- 12, 13 CAFO Update | 10 am - 3:30 pm | various locations, see page 5
- 14, 15 Winnebago Waterway and Lower Fox River Farmer Roundtables | 10 am - 4 pm | various locations
- 17 Wisconsin Hop Conference | 10:30 am - 3 pm | Hinterland Brewery, Green Bay
- 19-23 Extension Dairy Program "Reproductive Roadshow" | various locations and times, see page 6
- 20 Badger Dairy Insight | 11 am | presented online, see page 3
- 22, 28 Focus on Forage | 12:30 - 1:30 pm | presented online
- 27 The Future of Dairy Heifer Raising | 10 am - 2 pm | Farm Wisconsin Discovery Center, Manitowoc

## March

- 4, 5, 7 & 15, 18 Manure Hauler Update Meetings | various locations and times, see page 8
- 6, 20 Focus on Forage | 12:30 - 1:30 pm | presented online

*Join us*  
for the 2024  
**WINNEBAGO WATERWAYS  
& LOWER FOX RIVER  
FARMER ROUNDTABLES**



*Featuring Keynote Duo*  
**JOHN KOEPKE  
& AMBER RADATZ**  
How to maximize water quality  
with soil health practices

**Lower Fox River Roundtable**  
**When:** Wednesday 02/14/2024  
**Where:** Van Abel's, Hollandtown, WI  
**Time:** 10am-4pm

**Winnebago Waterways Roundtable**  
**When:** Thursday 02/15/2024  
**Where:** Masticola's, Berlin, WI  
**Time:** 10am-4pm

**Register Online**  
[www.soilhealthinprogress.org](http://www.soilhealthinprogress.org)  
by 02/07/2024

Farmer Panel  
NEW lightning topics session

- Success with soil health in challenging conditions
- Cost-share opportunity
- Introducing The Farm Progress Report
- Modifying equipment for soil health
- Guide to cover crops

Networking cocktail hour and buffet lunch included with ticket



**CONTACT TIM AT [TIM@FWWA.ORG](mailto:TIM@FWWA.ORG) TO LEARN MORE**  
*or visit our website*  
[WWW.SOILHEALTHINPROGRESS.ORG](http://WWW.SOILHEALTHINPROGRESS.ORG)



# FOCUS ON FORAGE

What's unique about crop insurance for forage production compared to grain production?

What management practices can I employ to mitigate drought challenges?

What are the agronomic benefits of different annual forages in Wisconsin?

How do I maximize the grazing season with perennial pastures?

Find answers to these questions and more on Feb. 22, Feb. 28, March 6, and March 20!

Register at [go.wisc.edu/FoF2024](https://go.wisc.edu/FoF2024)



## Balancing diets for energy and amino acids to maximize milk components

In this presentation, Sebastian I Arriola Apelo, Assistant Professor of Metabolism at UW-Madison in the Animal & Dairy Sciences Department, will discuss amino acid balancing when feeding different energy sources to maximize milk protein and fat. Discussion will include various scenarios, including consideration of an induced milk fat depression. Amino acid balancing strategies will be focused on commercially available rumen protected amino acids and bypass proteins.

Join the webinar live on Tuesday, Feb 20 at 11 am CST or watch the recorded version at your leisure at a later date!

<https://dairy.extension.wisc.edu/badger-dairy-insight/>

# 2024 WISCONSIN HOP CONFERENCE

February 17, 2024  
Hinterland Brewery  
1001 Lombardi Ave  
Green Bay, WI 54304



## Topics & Speakers

**Dr. Amanda Gevens**  
UW-Madison Extension,  
Plant Pathologist  
"Hop fungicide update"

**Dr. Chris Baxter**  
UW-Platteville, Extension, Soil Scientist  
"Potassium & liming material application to  
hop"

**Dr. Russ Groves**  
UW-Madison Extension, Entomologist "Hop  
insect management - new insecticides &  
emerging challenges"

**Jerry Clark**  
UW-Madison, Division of Extension, Regional  
Crops and Soils Educator  
"Hop cost of production survey results"

**Steffen Mirsky**  
UW-Madison, Extension, Emerging Crops  
Outreach Specialist  
"Discussion to identify challenges in WI hop  
supply chain"

**Josh Havill**  
University of Minnesota, Research Associate  
"Japanese hop - friend or foe"

## Additional Information

Program runs from 10:30am - 3pm,  
registration begins at 10am.

Click here to register for Saturday:  
<https://forms.gle/3KiADidjayzWv5DK9>

Cost: \$50 - Includes Lunch,  
Refreshments and Materials

Please pay by Cash or Check.

Checks can be written to:

Chippewa County Treasurer  
711 N Bridge St, Rm 013  
Chippewa Falls, WI 54729



For more information contact:

Jerry Clark at  
jerome.clark@wisc.edu  
or 715-726-7950



**Extension**  
UNIVERSITY OF WISCONSIN-MADISON

An EEO/AA employer, University of Wisconsin-Madison Division of Extension provides equal opportunities in employment and programming, including Title VI, Title IX, the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act requirements.

# 2024 ANNUAL CAFO UPDATE

Hosted by UW–Madison Division of Extension in collaboration with the Wisconsin DNR

## Agenda

Developing a High Quality Nutrient Management Plan (NMP)

What DNR looks for in a high quality plan, common concerns to avoid

Farmer/CCA Panel Discussion on Writing and Implementing the Best NMP

Farmer and agronomist experience creating workable, reasonable NMPs

Proactively Addressing Production Area Concerns

Addressing common concerns found during inspections

Lightning Rounds: Short Presentations on Key Issues

Substantial revisions to NMPs, mortality composting, reception tanks under hydrostatic pressure, separation criteria for wastewater storage, karst and engineering/siting implications, embankment settling, spreading rates/good manure management, and more

Emergency Response Planning—it's more than just manure

Planning for the unexpected

On-site Treatment Systems: Overview and Permit Considerations

Who's responsible for what whether it's your own system or partnered with an external manager

Days of Storage Calculations

How DNR evaluates submitted plan documentation

\*Location-specific panel discussions, topics, and presentations

Farmer/Manure Applicator Panel: Manure Innovation & Management

Jefferson, & Darlington

Impact of Copper Sulfate Footbath Use on Manure, Soil, and Forage Copper Concentrations

Jefferson, & Darlington

Registration Information <https://go.wisc.edu/CAFO2024>

Advance registration: \$46 | Late registration: \$56

## Locations and Dates

Monday, Feb. 12, 2024 | 10am - 3:30pm | Jefferson County Highway Training Room , 1425 S. Wisconsin Dr

Tuesday, February 13, 2024 | 10am - 3:30pm | Darlington, Lafayette County Multipurpose Building

# Dairy & Livestock

## Extension Dairy Program “Reproduction Roadshow” Meetings – February 19-23, 2024

By Jackie McCarville, Alison Pfau, Heather Schlessler, Ryan Sterry, and Angie Ulness  
UW-Madison Division of Extension – Dairy Program Educators

To help Wisconsin Dairy Farmers get the most current and up-to-date research information, the UW-Extension Dairy program has developed the “Reproduction Roadshow.” This roadshow is an update on UW-Madison dairy reproduction research, covering heifer reproduction, sexed semen, the high fertility cycle, and more. The roadshow features Dr. Paul Fricke, Professor and Extension Specialist in Dairy Cattle Reproduction, and Dr. JP Martins, DVM, Ph.D. from the Department of Medical Sciences – School of Veterinary Medicine UW-Madison.

We want to thank Parnell for sponsoring the Reproductive Roadshow this year.

Join this event the week of February 19 around Wisconsin and take the opportunity to learn from and discuss with experts on the dates below:

Farmer specific meetings:

- February 19, 2024, 10:00 am Lafayette County Multipurpose Building (11974 Ames Rd. Darlington)
- February 20, 2024, 10:00 am UW-River Falls Dairy Learning Center (129 South Glover Rd. River Falls)
- February 20, 2024, 1:30 pm Barron Electric Cooperative (1434 WI – 25 North Barron)
- February 21, 2024, 10:00 am Edgar Family Restaurant (127590 Opportunity Ln. Edgar)
- February 22, 2024, Noon Wisconsin Farm Discovery Center (7001 Gass Lake Rd. Manitowoc)
- February 23, 2024, 11:00 am Rex’s Innkeeper Restaurant, Waunakee (301 N. Century Ave. Waunakee)

Pre-registration by February 12, 2024 is required. For more information and to register for the meeting, visit <https://go.wisc.edu/repro>.

For more information, please contact:

- Jackie McCarville [jackie.mccarville@wisc.edu](mailto:jackie.mccarville@wisc.edu) (Lafayette location) ·
- Ryan Sterry [ryan.sterry@wisc.edu](mailto:ryan.sterry@wisc.edu) (Barron and River Falls locations) ·
- Heather Schlessler [heather.schlessler@wisc.edu](mailto:heather.schlessler@wisc.edu) (Edgar location) ·
- Angie Ulness [angie.ulness@wisc.edu](mailto:angie.ulness@wisc.edu) (Green Bay & Manitowoc locations) ·
- Alison Pfau [alison.pfau@wisc.edu](mailto:alison.pfau@wisc.edu) (Waunakee location)

## What is the future of dairy heifer raising in Wisconsin?

## The Future of Dairy Heifer Raising: Grazing Heifers for Economic and Ecological Returns



Please join us for the Future of Dairy Heifer Raising: Grazing Heifers for Economics and Ecological Returns Event on Tuesday February 27 in Manitowoc!

Raising replacement heifers in managed grazing systems provide economic savings and ecological improvements at the farm and watershed level, along with improved animal performance as they enter the milking herd. While there are many dairy farms that have successfully implemented dairy heifer grazing to their operation, the majority of dairy farms have not. The session will feature a panel of farmers and nutritionists discussing the advantages and logistics of raising heifers in managed grazing systems. We will also discuss the opportunity of building out a custom dairy heifer grazing supply chain in the region – matching dairy farms with custom heifer raisers with the goal of increasing farm economic viability and keeping small to mid-size farms a part of our rural landscape while meeting water quality goals. We will also provide information and resources available to farmers and industry partners interested in the possibilities related to grazing dairy heifers.

Bring your questions and experiences! Bring your neighbors, your nutritionists...and for nutritionists, bring your farmer clients! We expect a lively conversation and would appreciate having you in it. And we'll feed you lunch!

Perks: Free event, free knowledge and free lunch!

Tuesday, February 27, 2024, 10am to 2pm (with lunch) Please RSVP at this link: <https://bit.ly/FutureofDairy24>  
Farm Wisconsin Discovery Center - Manitowoc, 7001 Gass Lake Rd, Manitowoc

This session will feature a panel of farmers and nutritionists discussing the advantages and logistics of raising heifers in managed grazing systems. We will also discuss the opportunity of building out a custom dairy heifer grazing supply chain in the region – matching dairy farms with custom heifer raisers with the goal of increasing farm economic viability and keeping small to mid-size farms a part of our rural landscape while meeting water quality goals. We will also provide information and resources available to farmers and industry partners interested in the possibilities related to grazing dairy heifers.

Bring your questions and experiences! Bring your neighbors, your nutritionists...and for nutritionists, bring your farmer clients! We expect a lively conversation and would appreciate having you in it. And we'll feed you lunch!

These meetings represent a collaboration with the Eau Pleine Partnership for Integrated Conservation (EPPIC) and UW-Madison Grassland 2.0, as part of the Cloverbelt Learning Hub, in cooperation with Extension.

2024



# MANURE HAULER



UPDATE MEETINGS

## MEETING TOPICS TO INCLUDE:

- Spill prevention and response
- Understanding karst and shallow bedrock concerns
- Reading a nutrient management plan
- Pressure safety
- Road safety, flagging, and transfer

### LOCATION

Manitowoc

Chilton

Luxemburg

Cecil

### DATE/TIME

March 4: 6:00–9:00 PM

March 5: 1:00 PM & 6:00 PM

March 7 & 15: 12:30–3:30 PM

March 18: 1:00–4:00 PM

**Register today!**

**<https://go.wisc.edu/2024manure101>**





fvtc.edu



## Farm Safety & Equipment Operation

Students ages 12 to 16 will learn how to operate a tractor over 20 PTO horsepower, including how to connect and disconnect equipment and equipment parts.

**In-person orientation for all classes:** Saturday, April 6<sup>th</sup>, 2024 Appleton Agriculture Center

Session 1: 8:00 to 9:45 am

Session 2: 10:00 to 11:45 am

Attendance is mandatory for students and parents to be eligible for the class. Students will need a way to use multi-factor authentication (cell phone) or they will not be able to enter the online learning module.

**Virtual Portion for all Classes:** Tuesdays - 4/16, 4/23, 4/30, 5/7, 5/14, 5:00 – 6:00 pm

The virtual module must be completed prior to the in-person portion of the class. Students who do not complete the online learning module will **NOT** be allowed to attend the in-person class.

**For more information or to register please call a regional center.**

Registration Deadline for all classes: **March 25<sup>th</sup>, 2024**

### Wautoma Regional Center

Class #	Written Exam	In-person Class	Register
35103	Tuesday, May 21 at 5:30 pm	June 3 – June 6, 2024 from 9:00 am-3:00 pm	920-787-3319

### Waupaca Regional Center

Class #	Written Exam	In-person Class	Register
35102	Monday, May 20 at 5:30 pm	June 10 – June 13, 2024 9:00 am-3:00 pm	715-942-1700

### Clintonville Regional Center

Class #	Written Exam	In-person Class	Register
35101	Thursday, May 23 at 5:30 pm	June 17 – June 20, 2024 9:00 am-3:00 pm	715-823-1555

### Appleton Agriculture Center

Class #	Written Exam	In-person Class	Register
35099	Monday, May 20 at 5:30 pm	June 24 – June 27, 2024 9:00 am-3:00 pm	920-735-5645

### Chilton Regional Center

Class #	Written Exam	In-person Class	Register
35100	Wednesday, May 22 at 5:30 pm	July 8 – July 11, 2024 9:00 am-3:00 pm	920-849-4416

**\*\*Enrollment is limited to 14 students per class section\*\***

# USDA-NRCS News

## **USDA-NRCS announces 2nd sign up for Fiscal Year 2024 Environmental Quality Incentives Program (EQIP) Apply by May 17, 2024**

Wisconsin NRCS accepts applications year-round at all USDA Service Centers. Farmers and landowners interested in receiving financial assistance through NRCS programs are encouraged to apply now. Applications submitted by May 17, 2024 will be considered for 2024 funding. Applications received after May 17th will automatically be deferred to the next funding cycle for 2025 funding consideration.

EQIP is one of the primary programs available to farmers and landowners for farm and woodland conservation work, offering funding for more than 120 conservation practices.

NRCS can provide financial assistance for conservation practices that improve soil health, water and air quality, and other natural resources.

All eligible applications received by May 17, 2024 will be prioritized, evaluated, and ranked for funding in 2024. Applicants with projects that have designs completed and permit applications submitted will receive a higher ranking in select fund pools. Producers in Outagamie & Winnebago County can visit or call their local USDA Service Centers:

Appleton USDA Service Center  
3369 W. Brewster St., Appleton  
Phone (920) 733-1575 ext. 3

Oshkosh USDA Service Center  
625 E County Road Y Oshkosh  
Phone (920) 424-0329 ext. 3

Sign-up opportunities are open for Climate Smart Agriculture & Forestry – Inflation Reduction Act program (CSAF-IRA) and several other landscape-based initiatives. Special initiatives are available for socially disadvantaged and other historically underserved producers, such as Tribal Nations, Veterans, and Beginning Farmers, at increased payment rates. All initiatives offer technical and financial assistance through EQIP or RCPP.

For more program information, visit the NRCS Wisconsin webpage under Programs & Initiatives at:  
<https://www.nrcs.usda.gov/conservation-basics/conservation-by-state/wisconsin>

# Crops & Soils

## Hay Market Report

All data have been compiled by Jason Cavadini, Grazing Outreach Specialist, UW-Madison Division of Extension. Prices are reported for alfalfa hay and grass hay. Alfalfa hay includes pure alfalfa and alfalfa/grass mix.

All values are compiled from public and private quality tested sales through Wisconsin and the Midwest and reported on the first and third weeks of each month. All prices are reported on an as-fed basis, and not on a dry matter basis.

Where there is only an average price listed, no minimum or maximum prices were reported for that category. Average, minimum, and maximum prices in this report are the mean of all average, minimum and maximum prices reported from other sales in the Midwest. Thus, occasionally the "average" in this report will fall outside of the minimum and maximum range.

The Hay Market Report can be found at <https://cropsandsoils.extension.wisc.edu/>.

Hay Grade	Bale Type	-----Price (\$/ton)-----		
		Average	Minimum	Maximum
Prime (>151 RFV/RFQ)	Small Square	\$341.00		
	Large Square	\$225.00	\$201.00	\$241.00
	Large Round	\$194.00	\$179.00	\$191.00
Grade 1 (125-150 RFV/RFQ)	Small Square			
	Large Square	\$185.00	\$185.00	\$246.00
	Large Round	\$171.00	\$149.00	\$172.00
Grade 2 (103-124 RFV/RFQ)	Small Square			
	Large Square	\$150.00		
	Large Round	\$134.00	\$120.00	\$155.00
<b>Grass Grade</b>				
Prime (>151 RFV/RFQ)	Small Square	\$290.00	\$1600.00	\$352.00
	Large Square			
	Large Round	\$179.00	\$171.00	\$197.00
Grade 1 (125-150 RFV/RFQ)	Small Square	\$256.00		
	Large Square			
	Large Round	\$129.00	\$101.00	\$141.00
Grade 2 (103-124 RFV/RFQ)	Small Square			
	Large Square	\$130.00		
	Large Round	\$112.00	\$50.00	\$125.00

# Crops & Soils

## Corn Enterprise Budget

Enter your numbers and information in blue cells

Green Cells are calculated values

Directions in yellow boxes to the right of the entry section


### Crop Description

#### Revenue

	Bu / acre	X	\$ / bu	=	Total / acre
Grain			\$ -		\$ -
Misc. Income (i.e. bedding, others )					\$ -
<b>Total Revenue per Acre</b>	<b>( _____ Bu x \$ _____ / Bu ) + Misc. Income =</b>				<b>\$ -</b>

1.

#### Expenses

#### Fertilizer

Fertilizer applied on a pounds of product per acre basis

	gal / acre	X	\$ / gal	=	\$ / acre
Liquid Starter			\$ -		\$ -

2.

	lb product / acre	X	\$ / ton	=	\$ / acre
Dry Starter			\$ -		\$ -
Bulk Blend			\$ -		\$ -
Bulk Blend			\$ -		\$ -
			\$ -		\$ -

3.

Fertilizer applied on a pounds of nutrient per acre not accounted for above

Nitrogen fertilizer		lb N / acre	X	\$ / lb N	=	\$ / acre
Urea				\$ -		\$ -
28%				\$ -		\$ -
32%				\$ -		\$ -
Anhydrous				\$ -		\$ -
N Stabilizer / Extender				\$ -		\$ -
lb N from Phos products used below*						\$ -

4.

	lbs P2O5	X	\$ / lb P2O5	=	\$ / acre
Phosphorus			\$ -		\$ -

5.

	lbs K2O	X	\$ / lb K2O	=	\$ / acre
Potassium			\$ -		\$ -

6.

Manure					\$ -
					\$ -
Sulfur					\$ -
Other					\$ -
					\$ -

7.

Custom hired fertilizer applications		# passes	X	\$ / pass	=	\$ / acre
broadcast P & K				\$ -		\$ -
				\$ -		\$ -
Side dress N				\$ -		\$ -

8.

Ag Lime (prorated)	X	(tons / acre	X	\$ / ton)	+ Spreading \$)	=	\$ / acre
% / year (4 yrs = 25%)				\$ -	\$ -		\$ -

9.

<b>Total Fertilizer Including Hired Application Costs per Acre</b>						<b>\$ -</b>
--	--	--	--	--	--	-------------

10.

$$2+3+4+5+6+7+8+9=10$$

# Crops & Soils

<b>Seed Costs</b>				
	seeds / acre X	\$ / 80k kernels =	\$ / acre	
Corn Seed		\$ -	\$ -	11.
	lb / acre X	\$ / lb =	\$ / acre	
Cover Crop Seed			\$ -	12.
	bu / acre X	\$ / bu =	\$ / acre	
Cover Crop Seed			\$ -	13.
<b>Total Seed Cost per Acre</b>	<b>11+12+13=14</b>		\$ -	14.
<b>Pesticides</b>				
<b>Weed Control</b>			<b>\$ / acre</b>	
Burndown Herbicide Product			\$ -	
Application Cost*			\$ -	
Pre-plant Herbicide Product			\$ -	
Application Cost*			\$ -	
Post Herbicide Product Pass 1			\$ -	
Application Cost*			\$ -	
Post Herbicide Product Pass 2			\$ -	
Application Cost*			\$ -	
<b>Fungicide Application</b>			\$ -	
Fungicide Product Pass 1			\$ -	
Application Cost*			\$ -	
Fungicide Product Pass 2			\$ -	
Application Cost*			\$ -	
<b>Insect Control</b>			\$ -	
Insecticide Product			\$ -	
Application Cost*			\$ -	
Seed treatment			\$ -	
Soil applied			\$ -	
<b>Total Pesticide and Custom Application Cost per Acre</b>			\$ -	15.
<b>Irrigation</b>				
			<b>\$ / acre</b>	
Annual overhead cost per acre				16.
	# inches applied X	\$ / inch =	\$ / acre	
Direct cost per acre inch applied			\$ -	17.
<b>Total Irrigation per Acre</b>	<b>16+17=18</b>		\$ -	18.
<b>Other Expenses</b>				
			<b>\$ / acre</b>	
Land Rent / Ownership Cost			\$ -	
Crop Insurance			\$ -	
Crop Scouting			\$ -	
Nutrient Management Plan (annual cost / acre)			\$ -	
Soil testing cost per acre per year			\$ -	
<b>Total other Expenses per Acre</b>			\$ -	19.
<b>Total Direct Production Inputs per Acre</b>	<b>10+14+15+18+19=20</b>		\$ -	20.

# Crops & Soils

## Field Operations

### Preharvest Field Operations

	passes / acre X	\$ / pass	=	\$ / acre
Chisel plow		\$ -		\$ -
Field cultivator		\$ -		\$ -
Planter		\$ -		\$ -
No Till Planter		\$ -		\$ -
				\$ -
Plant cover crop		\$ -		\$ -
				\$ -
				\$ -
				\$ -
				\$ -
<b>Total Preharvest Field Operations per Acre</b>				<b>\$ -</b>

21.

### Harvest Field Operations

	passes / acre X	\$ / pass	=	\$ / acre
Combine		\$ -		\$ -
Grain Cart		\$ -		\$ -
Hauling to farm		\$ -		\$ -
				\$ -
				\$ -
				\$ -
<b>Total Harvest Field Operations per Acre</b>				<b>\$ -</b>

22.

### Hauling

	load cost/acre X	(miles hauled X \$ / mile)	=	\$ / acre
to point of sale				\$ -

23.

load cost/acre = bu/acre / bu/load (i.e. 180/900=0.20)

<b>Total Pre &amp; Post Harvest Operations per Acre Including Hauling</b>				<b>\$ -</b>
	<b>21+22+23=24</b>			

24.

## Drying and Storage

	points to dry X	cost / point / bu =	\$ / acre
Drying		\$ -	\$ -
	bu/acre stored X (# of mos X	cost / bu / mo) =	\$ / acre
Storage		\$ -	\$ -

25.

26.

## Hired Labor not Accounted for Elsewhere

	hr / acre X	\$ / hr	=	\$ / acre
Labor		\$ -		\$ -

27.

	% interest rate X	loan amt /acre	=	\$/acre
Interest cost of operating loan per acre				\$ -

28.

	Mgt rate % X	Total Revenue/Acre (Line 1.) =	
Management Expense		\$ -	

29.

<b>Total Expense / Acre</b>	<b>20+24+25+26+27+28+29=30</b>		<b>\$ -</b>
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30.

	(Total Revenue - Total Expense) =	Net Return/ac
<b>Net Return / Acre</b>		<b>\$ -</b>
	<b>1-30=31</b>	

31.

	Total expense /	Total Revenue =	Cost/bu
<b>Cost per Bushel (Breakeven)</b>		<b>\$ -</b>	
	<b>30 / 1 = 32</b>		

32.

# Crops & Soils

## Corn Enterprise Budget

Enter your numbers and information in blue cells

Green Cells are calculated values

Directions in yellow boxes to the right of the entry section


### Crop Description

#### Revenue

	Bu / acre	\$ / bu	Total / acre
Grain	180	\$ 4.00	\$ 720.00
Misc. Income (i.e. bedding, others )			\$ -
<b>Total Revenue per Acre</b>			<b>\$ 720.00</b>

#### Expenses

#### Fertilizer

Fertilizer applied on a pounds of product per acre basis

	lb / gal	gal / acre	\$ / ton	\$ / acre
Liquid Starter	11.65	5	\$ 588.00	\$ 17.13

	lb product / acre	\$ / ton	\$ / acre
Dry Starter	0	\$ 590.00	\$ -
Bulk Blend		\$ -	\$ -
Bulk Blend		\$ -	\$ -
		\$ -	\$ -

Fertilizer applied on a pounds of nutrient per acre not accounted for above

Nitrogen fertilizer	lb N / acre	\$ / lb N	\$ / acre
Urea	150	\$ 0.57	\$ 85.50
28%		\$ -	\$ -
32%		\$ -	\$ -
Anhydrous		\$ -	\$ -
Stabilizer / Extender			\$ -
lb N from Phos products used below*			\$ -

Phosphorus	lbs P2O5	\$ / lb P2O5	\$ / acre
	45	\$ 0.64	\$ 28.80

Potassium	lbs K2O	\$ / lb K2O	\$ / acre
	50	\$ 0.39	\$ 19.50

Manure			\$ -
Other			\$ -
			\$ -
			\$ -

Custom hired fertilizer applications	# passes	\$ / pass	\$ / acre
broadcast P & K	1	\$ 9.00	\$ 9.00
		\$ -	\$ -
Side dress N		\$ -	\$ -

	Years to pro-rate	tons / acre	\$ / ton	\$ / acre
Ag Lime	1	0.0	\$ -	\$ -
			\$ / acre	
Ag Lime Application (if custom hired and not part of ag lime)			\$ -	\$ -

<b>Total Fertilizer Including Hired Application Costs per Acre</b>				<b>\$ 159.93</b>
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# Crops & Soils

## Seed Costs

	seeds / acre	\$ / 80k kernals	\$ / acre
Corn Seed	35,000	\$ 250.00	\$ 109.38
	lb / acre	\$ / lb	\$ / acre
Cover Crop Seed	30.0	\$ 2.00	\$ 60.00
	bu / acre	\$ / lb	\$ / acre
Cover Crop Seed			\$ -
<b>Total Seed Cost per Acre</b>			<b>\$ 169.38</b>

## Pesticides

### Weed Control

	\$ / acre
Burndown Herbicide Product	
Application Cost*	
Pre-plant Herbicide Product	
Application Cost*	
Post Herbicide Product Pass 1	\$35.00
Application Cost*	\$9.00
Post Herbicide Product Pass 2	
Application Cost*	

### Fungicide Application

Fungicide Product Pass 1	
Application Cost*	
Fungicide Product Pass 2	
Application Cost*	

### Insect Control

Insecticide Product	
Application Cost*	
Seed treatment	
Soil applied	

**Total Pesticide and Custom Application Cost per Acre** \$ 44.00

## Irrigation

			\$ / acre
Annual overhead cost per acre			
	# inches applied	\$ / inch	\$ / acre
Direct cost per acre inch applied	0	5.50	\$ -
<b>Total Irrigation per Acre</b>			<b>\$ -</b>

## Other Expenses

	\$ / acre
Land Rent / Ownership Cost	\$ 185.00
Crop Insurance	\$ 30.00
Crop Scouting	\$ -
Nutrient Manageme (annual cost / acre)	\$ -
Soil testing cost per acre per year	\$ 2.50
<b>Total other Expenses per Acre</b>	<b>\$ 217.50</b>

**Total Direct Production Inputs per Acre** \$ 590.80



# Crops & Soils

## Field Operations

Preharvest Field Operations			
	passes / acre	\$ / pass	\$ / acre
Chisel plow	1	\$ 20.00	\$ 20.00
Field cultivator	1	\$ 17.50	\$ 17.50
Planter	1	\$ 25.00	\$ 25.00
No-Till Planter		\$ 35.00	\$ -
			\$ -
Plant cover crop	1	\$ 18.00	\$ 18.00
			\$ -
			\$ -
			\$ -
			\$ -
<b>Total Preharvest Field Operations per Acre</b>			<b>\$ 80.50</b>

Harvest Field Operations			
	passes / acre	\$ / pass	\$ / acre
Combine	1	\$ 40.00	\$ 40.00
Grain Cart	0	\$ -	\$ -
Hauling to farm	0	\$ -	\$ -
			\$ -
			\$ -
			\$ -
<b>Total Harvest Field Operations per Acre</b>			<b>\$ 40.00</b>

Hauling				
	bu / load	miles hauled	\$ / mile	\$ / acre
to point of sale	900	25	4.00	\$ 20.00
	450			\$ -
<b>Total Post Harvest Operations per Acre Including Hauling</b>				<b>\$ 60.00</b>

## Drying and Storage

Drying				
	points to dry	cost / point / bu	\$ / acre	
	6	\$ 0.06	\$ 64.80	
Storage				
	% crop stored	# of mos	cost / bu / mo	\$ / acre
	100%	6	\$ 0.04	43.20

## Hired Labor not Accounted for Elsewhere

	hr / acre	\$ / hr	\$ / acre
Labor	1.5	\$ 15.00	\$ 22.50

Interest rate of operating loan per acre \$ 31.51

Management at 5% of gross revenue \$ 36.00

Total Expense / Acre \$ 929.31

Net Return / Acre \$ (209.31)

Cost per Bushel (Breakeven) \$ 5.16

Net Return per Acre						
Price and Yield Sensitivity Analysis						
Yield Change		Net Return per Acre				
Yield	bu/acre					
+20%	216	-\$238	-\$152	-\$65	\$21	\$107
+10%	198	-\$296	-\$217	-\$137	-\$58	\$21
	180	-\$353	-\$281	<b>-\$209</b>	-\$137	-\$65
-10%	162	-\$411	-\$346	-\$281	-\$217	-\$152
-20%	144	-\$469	-\$411	-\$353	-\$296	-\$238
<b>Price per Bushel</b>		\$3.20	\$3.60	\$4.00	\$4.40	\$4.80
<b>Price Change</b>		-20%	-10%		+10%	+20%



# Extension

UNIVERSITY OF WISCONSIN-MADISON  
OUTAGAMIE COUNTY

**February 2024 Ag Newsletter**  
**3365 W Brewster St**  
**Appleton, WI 54914**



# Extension

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Dan Gabrielson County Board Vice Chair

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