



Shawano County Agricultural Newsletter University of Wisconsin-Extension February 2013



Interim Agriculture Agent

We are still conducting the search for a new UW-Extension Agriculture Agent. It will be several months before a new agent can be hired. In the interim, Ken Barnett will be filling in two days a week. Ken will usually be here on Tuesdays and Thursdays from 9 am to 3 pm. Ken is a statewide Extension Educator who works in the areas of crop budgeting, hay marketing and pricing, forage economics, pasture management, agricultural emergency management and agriterrorism. Give Ken a call if you have any questions on agricultural issues. You can reach Ken at (715) 526-6136 or by email at ken.barnett@ces.uwex.edu.

Private Pesticide Applicator Training Scheduled

Crop producers who need to re-certify or become certified for private pesticide application can register for one of two sessions to be held this winter. Private Pesticide Applicator Training and Certification sessions have been scheduled for:

Tuesday, February 5th (register by Jan 31)

Thursday, March 7th (register by Feb 28)

Training will take place at the Shawano County Courthouse in downstairs meeting rooms A and B. Registration will begin at 9:45 am, and the program will run from 10:00 am until 3:30. Lunch is on your own, but there will be an hour break at noon.

You must pre-register at the UWEX Office by the appropriate date, pay your \$30 training and materials fee, and READ your training manual prior to coming to the training session. The UWEX Office is located in Room 101 of the Courthouse in Shawano, and we are open from 8 am to 4:30 pm Monday through Friday. Contact us at 715-526-6136 or by email at ken.barnett@ces.uwex.edu. We can also send manuals out via regular mail, but have to charge extra for postage and handling.

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Farm Fun Facts

- Americans today consume 17.3 billion quarts of popped popcorn each year! The average American eats about 68 quarts!
- Fresh apples float because 25% of their volume is air.
- Americans eat Approximately 100 acres of pizza each day, or 350 slices per second.

UW Nitrogen Application Guidelines for Corn and Wheat

A recently-released version of the UWEX publication A2809, *Nutrient Application Guidelines for Field, Vegetable, and Fruit Crops in Wisconsin* has some changes to soil nutrient fertilizer recommendations. Here are a few of the highlights regarding nitrogen applications to corn and wheat.

Corn Nitrogen Rates

Wisconsin and other Midwest states use the maximum return to nitrogen (MRTN) system for determining corn nitrogen rates. The fertilizer rates are based on the cost of N and an anticipated corn price and provide a range of profitable nitrogen rates that are within \$1/acre of the maximum return rate. This will not change. With the addition of new corn N rate studies and the dropping of old ones, the rates have moved upward for the most part. See Table 1 for the new nitrogen rates for corn.

Table 1. Suggested nitrogen application rates for corn (grain) at different nitrogen: corn price ratios

		N:Corn Price Ratio			
		0.05	0.10	0.15	0.20
Soil	Previous Crop	total lb N/acre (to apply)			
loamy: high yield potential	Corn, forage legumes,	190	165	150	135
	legume vegetables, green manures	170 -- 210	155--180	140--160	125--150
	Soybeans, small grains	140	120	105	90
		125--160	105--130	95--115	80--105
loamy: medium yield potential	Corn, forage legumes,	145	125	115	105
	legume vegetables, green manures	130--160	115--140	105--125	95--110
	Soybeans, small grains	130	100	85	70
		110--150	85--120	70--95	60--80
sands/loamy sands	Irrigated - All Crops	215	200	185	175
		200--230	185--210	175--195	165--185
	Non-irrigated - All crops	140	130	120	110
		130--150	120--140	110--130	100--120

To determine the optimum N rate for a given field, you first need to calculate the nitrogen:corn price ratio. Let's do an example. If urea (46% N) is priced at \$590 per ton, then the actual N price per lb N is $(\$590/0.46)/2000$ or \$0.64 price per lb N. If we use a January 2013 cash price for corn of \$7.07 per bushel, then the nitrogen:corn price ratio is calculated as $\$0.64/\$7.04/\text{bu}$ or 0.91 which can be rounded up to 0.10.

If the corn is following corn, the MRTN rate for our example would be 165 lbs N per acre for a high yield potential loamy soil or 125 lbs N per acre for a medium yield potential loamy soil. Remember to subtract legume and manure credits from the suggested nitrogen application rate. If the corn is following soybeans or small grains, then the nitrogen rate would be 120 or 100 lbs N per acre for a high yield potential loamy soil or medium yield potential loamy soil, respectively.

Some additional guidelines are as follows:

- For maximum silage yield, use N rate for 0.05 price ratio. To adjust rates for silage, use price ratio that reflects typical prices for N and grain.
- If >50% residue at planting, use upper end of range.
- If all N is from organic sources, use top end of range. Plus, up to 20 lb N/acre as starter may be used.
- For loamy (medium & fine-textured) soils with >10% soil organic matter (OM), use low end of range.
- For all soils with <2% soil OM, use high end of range.
- For sandy (coarse-textured) soils with <2% OM, use high end of range; 2-10% OM, use mid to low end of range; 10-20% OM, use non-irrigated guidelines—regardless of irrigation status; >20% OM, apply 80 lb N/acre.
- When corn follows small grains on loamy soils, use the mid to low end of range.
- For loamy irrigated or drained soils, use rates for high yield potential soils.
- If potential for carry-over (residual) N, use low end of range or use the high end and subtract preplant soil nitrate test (PPNT) credits.

Wheat Nitrogen Rates

The maximum return to nitrogen (MRTN) approach used for corn nitrogen rates has been refined for use in wheat. They are based on soil group, the nitrogen: wheat price ratio, previous crop, and the preplant N test results (if available). Let's do an example. If urea (46% N) is priced at \$590 per ton, then the actual N price per lb N is $(\$590/0.46)/2000$ or \$0.64 price per lb N. If we use a January 2013 cash price for wheat of \$7.21 per bushel, then the nitrogen: wheat price ratio is calculated as $\$0.64/\$7.21/\text{bu}$ or 0.89 which can be rounded up to 0.10. See Table 2 for the new nitrogen rates for wheat.

If the wheat is following corn and there is no PPNT, the MRTN rate for our example would be 60 lbs N per acre for a loamy soil or 90 lbs N per acre for a sandy soil. Remember to subtract legume and manure credits from the suggested nitrogen application rate. If the wheat is following soybeans or small grains, then the nitrogen rate would be 45 lbs N per acre for a loamy soil. For a sandy soil, the N rate would be 90 lbs N per acre.

Table 2. Suggested nitrogen application rates for wheat at different nitrogen: wheat price ratios

			N:Wheat Price Ratio			
			0.05	0.075	0.10	0.125
Soil Group	Previous Crop	PPNT	total lb N/acre (to apply)			
		(lb NO ₃ -N/Acre)				
Loamy						
	Corn	<50 or no PPNT	75	70	60	55
			65--85	55--80	50--70	40--65
		50 to 100	45	40	35	30
			35--45	30--50	25--40	20--35
		>100	0	0	0	0
			0--0	0--0	0--0	0--0
	Soybeans, small grains	All	55	50	45	40
			45--65	40--60	35--50	35--45
Sandy						
	All	PPNT not rec.	105	100	90	85
			95--115	95--110	80--100	70--95

Up Coming Events

Wisconsin Dairy & Beef Animal Well-Being Conference

The Wisconsin Dairy & Beef Animal Well-Being Conference will be held on March 8th at the Liberty Hall Banquet & Conference Center in Kimberly from 9:00 a.m. until 3:30 p.m. CEU's are available for veterinarians. Cost is \$40.00 per person before March 1st and \$50.00 after March 1st deadline. \$75.00/veterinarian earning CEU's and \$85.00 after March 1st deadline. Contact Greg Blonde, Waupaca County UW-Extension, for more information at (715) 258-6230 or greg.blonde@ces.uwex.edu.



Gardening in Tune With Nature

The Waushara County Master Gardener Association (Shar-a-Gardeners) is sponsoring *Gardening in Tune with Nature* on March 23rd in at The McComb Bruchs Performing Arts Center in Wautoma from 8:30 a.m. to 4:00 p.m. There will be a variety of speakers, vendors, and displays. Cost is \$25.00. Contact Helen Cox at (920) 787-5900 or butchcox_2000@yahoo.com for more information.

2013 Repro Money Road Show Series

Reproducing Profitability Workshop

RESOURCES
**REPRO
MONEY**



Speakers and Topics:



Dr. Amy Stanton

"Eliminating road blocks to getting your heifers pregnant: The impact of early calf health and rearing on fertility and time to first calving"



Dr. Paul Fricke

"Update on reproduction research at UW Madison"



Dr. Pamela Ruegg

"Subclinical mastitis-the silent disease that can reduce reproductive performance"



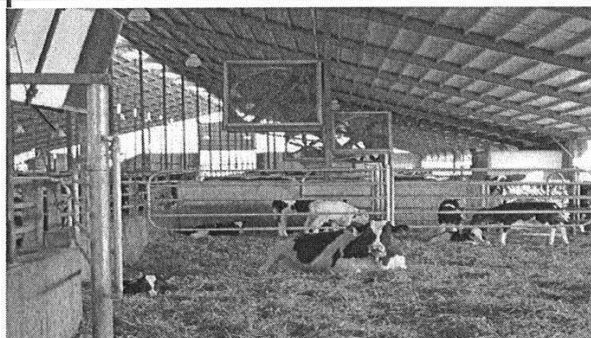
Dr. Pat Hoffman

"Dairy heifer management in the age of genomics"



Dr. Connie Cordoba

"How the Repro Money Program can increase your net income by enhancing your herd's reproductive efficiency"



Friday, February 1

9:30 am Registration

10 am - 3 pm Program

Waupaca County

Crystall Falls Banquet Hall

**1500 Handshke Drive, New London
and**

Shawano County

Angie's Café

132 S. Main, Shawano

This solution-oriented workshop will provide practical ideas for your farm. UW experts will share proven methods and decision-making tools to help you manage your dairy farm reproductive program and make the right decisions.

FREE, NO CHARGE! However, *RSVP required by Friday, January 25*

To register in Waupaca County:

715-258-6231 or email carrie.koehn@ces.uwex.edu

To register in Shawano County:

715-526-6136 or email rhonda.sumnicht@co.shawano.wi.us

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Shawano County Forage Council

A Midwest Forage Association Affiliate

Shawano County UW-Extension

311 North Main Street

Shawano, WI 54166

715.526.6136

2013 Annual Meeting & Educational Program

Thursday, February 21, 2013

The Woodland, Gresham

- | | |
|-------|--|
| 10:00 | Registration |
| 10:15 | Round-up Ready Alfalfa Plots – Richard Proost |
| 11:00 | Cover Crops – Kevin Shelley |
| 11:45 | Shawano County Forage Council Business Meeting |
| 12:00 | Lunch |
| 1:00 | Fine Tuning Dairy Rations Using a New UW Test for Fiber Digestibility - Dave Combs |
| 1:45 | Update on Midwest Forage Association |
| 2:00 | Seed Auction |
| 2:30 | Adjourn |

2013 Shawano County Forage Council Annual Meeting

Advance Registration Required by February 14

Make checks payable to: Shawano County Forage Council

Return to: Shawano County UWEX, 311 North Main Street, Shawano, WI 54166

Registration & Membership Options:

____ Midwest Forage Association & Shawano County Forage Council Membership + Lunch @ \$65

____ Shawano County Forage Council Membership + Lunch @ \$35

____ Lunch only @ \$15

Name(s) _____

Address _____

Zip _____ Phone _____

Email _____

UW-Extension
311 N Main Street #101
Shawano, WI 54166

Phone: 715-526-6136
Fax: 715-526-4875

<http://shawano.uwex.edu>

*Your county
extension office*



**UW
Extension**
Cooperative Extension
Shawano County

Calendar of Events

- Feb 1** **2013 Repro Money Road Show Series,
Angie's Main Café, 10 am**
- Feb 5** **Pesticide Applicator Training,
Courthouse, 10 am**
- Feb 21** **Shawano County Forage Council Annual
Meeting, Woodland, Gresham 10 am**
- March 7** **Pesticide Applicator Training,
Courthouse, 10 am**
- March 8** **Wisconsin Dairy & Beef Animal Well-Being
Conference, Liberty Hall Banquet & Conference
Center, Kimberly, WI**
- March 23** **Gardening in Tune with Nature, Wautoma, WI**



“University of Wisconsin-Extension U.S. Department of Agriculture and Wisconsin counties cooperating.
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ADDRESS SERVICE REQUESTED

Shawano County UW-Extension
Courthouse—Room 101
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Shawano, WI 54166

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