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DAIRY HERD HEALTH SYMPOSIUM

FEBRUARY 21, 2011

ALLISON'S SUPPER CLUB, ABBOTSFORD



The performance of your cows depends on their health status in many different areas. Without good reproductive health cows don't milk as well and replacements are in short supply. Without good udder health cows loose production and you lose quality premiums and spend money on treatment. Transition cow care and management are a big key to getting both reproduction and udder health right. The reality is that

even with good management some cows will need antibiotic therapy. Managing decisions about the use of antibiotics and culling decisions are a challenge on Wisconsin dairy farms. This program was designed to help producers achieve better herd health and maintain a profitable health status.

Program Topics

- **The 7 Habits of Highly Effective Reproductive Management Programs**, Paul Fricke, Dairy Cattle Reproduction Specialist

Reproduction is an ever present concern on dairy farms. Getting cows pregnant in a timely manner is a key to running a profitable farm. Paul will share the strategies that are used by successful farms to deal with the reproduction issues.

- **Treatment of Mastitis to Maximize Quality and Reduce Residues**, Pam Ruegg, DVM, Milk Quality Specialist

Treating mastitis is risky business. Will the treatment cure the cow? Will the milk from a treated cow end up in the tank? How much should be spent on treatment? Pam will help you answer these questions for your farm and help you reduce the risks of mastitis and treatment of the disease.

- **Transition Cow Feeding Management**, Randy Shaver, Dairy Nutrition Specialist

Transition cows are the most vulnerable cows on the farm. How cows are managed during this time can help determine not only their performance at the time of calving but also the rest of the lactation. Randy will outline some best management practices for transition cows.

NORTH CENTRAL FARMWOMEN'S NETWORK

all sessions 11 a.m.—2 p.m.

Allison's Steakhouse Abbotsford February 11 and March 11

You are invited to become part of the North Central WI Farmwomen's Network.

The recently published 2007 Census of Agriculture notes the increase of women farmers in WI. Since the last Agriculture census conducted in 2002, the 2007 Census counted nearly 30 percent more women as principal farm operators. The 2007 Census counted 14% of the self-described principle farm owners in Taylor County as women, an increase of 9% since the last census in 2002. The 2007 Census counted 6% of the self-described principle farm owners in Clark County, 7% in Marathon County; also an increase from the 2002 Census: 4% in Clark County and 5% in Marathon County. As an increasing yet minority population, these women are committed to their farming lifestyle.

Current research of the UW-Madison Environmental Resources Center shows farmwomen often feel isolated and 'put-down' in a male-oriented farming community. It can be difficult to enjoy social events when many farmwomen friends are not engaged in farming, not understanding the pressures of a farming lifestyle.

For the past three years, Taylor and Clark County UW-Extension have been offering *Annie's Project*, a series of classes concerning farm financial matters for farmwomen. Each year, the women attendees talk of the difficulties they face while farming in a male dominated, rural WI. The women have stated their willingness to attend peer group sessions where they would establish their own personal network.

To meet this request, UW-Extension Taylor County is partnering with the Taylor/Price County Farm Service Agency and UW-Extension Clark County to foster The North Central Farmwomen's Network (NCFN). NCFN will consist of three hour lunchtime sessions whereby you may discuss challenges you currently face on your farm. You are invited to register using the enclosed form, which asks you to

Gilman Bowl Gilman February 22 and March 22

choose or list a few key items they would like information on. While prioritizing the responses indicated to start discussions, you will be encouraged to self-direct the sessions. The counties' UW-Extension educators (Sandy and Maria) as well as the area FSA director (Deb) will be present to facilitate these discussions and will work to provide follow-up information.

You are encouraged to register for either the Gilman or the Abbotsford site. The second session will follow-up on topics discussed at the first session, but attending both is not mandatory. There is no charge. Pre-registration is required and sessions are limited to 20 women, so sign up early!

Ladies: this is your network; a safe place for you to ask about whatever it is you need to know more about. The sessions are guaranteed to be fun, informal and information packed. I look forward to meeting with you.

Registration Form
North Central Farmwomen's Network

RSVP by February 1, 2011

Name: _____

Address: _____

City/State/Zip: _____

County: _____

Phone: _____

Email: _____

Will attend (check one or two locations):

Feb. 11, Abbotsford Feb. 22, Gilman
 March 11, Abbotsford March 22, Gilman

Send registration form to:
 UWEX Taylor County
 925 Donald St, Room 103
 Medford WI 54451

*List three concerns you would like information about.

WI DAIRY & BEEF ANIMAL HUSBANDRY CONFERENCE

MARCH 4, 2011

AMERICAN LEGION HALL, NEILLSVILLE WI

"The care and wellbeing of cattle in the state of Wisconsin is important to consumers and farmers alike. This conference will help producers to improve the care of their cattle and better understand the consumers point of view."

Program Agenda**8:00 AM..... Registration****8:30 AM..... Welcome and Introduction**

9:00 AM..... Animal Handling and Production Based Outcomes, Naomi Botheras, Animal Welfare Extension Specialist, The Ohio State University

We often talk about ways to improve profitability of our herds and what the return on investment will be for any particular management strategy or innovation — the return on investment of training stockpeople to improve animal handling can be pretty high. Naomi will talk about strategies to improve both animal stress levels and production.

10:00 AM... Utilizing Knowledge of Dairy Cow Behavior to Improve Cow Comfort, Trevor DeVries, Dept of Animal and Poultry Science, University of Guelph

Producers invest significant amounts of money in constructing housing for dairy cattle, with the aim of providing a comfortable environment for their animals; this environment should ensure adequate rest and free access to an appropriate, well-balanced diet. This presentation will review empirical work focused on the feeding, standing and lying areas we provide to dairy cows, and show how these can be better designed and managed to prevent some of these problems and improve cow comfort.

11:30 AM... Live Dairy Cattle Handling Demonstration, Curt Pate, National Cattlemen's Association

12:30 PM... Live Beef Cattle Handling Demonstration, Curt Pate, National Cattlemen's Association

Curt brings great value to the livestock industry. In addition to devoting his time conducting stockmanship presentations, he manages his own ranch operation in Montana. With his ability to think outside the box, his ability to challenge others to do the same, and a willingness to share his skills, Curt has set himself apart in conducting stockmanship clinics. His lifelong experience in ranching adds credibility and enables him to communicate his methods effectively to cattle ranchers throughout the country.

1:30 PMMeasuring Animal Welfare

Kurt Vogel, UW-River Falls Professor of Animal Science

Producers are constantly looking for ways to improve animal comfort and productivity. The industry is looking to quantify animal welfare and comfort so that it can be communicated to the consumer in a clearer way. Kurt's presentation will outline how to measure animal welfare on farms.

2:45 PMProducer/Consumer Panel

What You Can do to Boost Consumer Confidence

3:30 PMAdjourn

**Registration Form
WI Dairy & Beef Animal Husbandry
Conference**

Name _____

Address _____

City/State/Zip _____

Email address _____

Phone _____

attending _____

Check which breakout session you would attend:

 Dairy Cattle Handling Beef Cattle Handling

Six veterinary CEU credits will be available for a registration fee of \$65.

I would like CEU Credits: Yes No

Cost of this workshop is **\$40** per person. Pre-registration is required. Registrations received after deadline will be **\$45**. Make check payable to: UW-Extension. Registration deadline: February 21st.

Mail to:

Clark County UW-Extension
517 Court Street, Room 104
Neillsville WI 54456

Register online at: <http://fyi.uwex.edu/animalhusbandryconference/>

DAIRY HERD HEALTH SYMPOSIUM (CONTINUED)

- **Hot Cows! Antibiotic Residues in Dairy Cattle,**
Jim Campbell American Foods Group

Antibiotic residues in meat from dairy cattle is an increasing concern. Having an animal go to slaughter with residues can ruin both the market for the farm that ships her, as well as the reputation of the dairy industry. Jim will discuss the problem and some solutions.



Cost for this workshop is \$20 per person. Pre-registration is required. Registrations received after deadline will be \$25.00. Make checks payable to **UW-Extension**.

Registration deadline: February 14th.

For more information contact the Clark County UWEX at 715-743-5121.

Registration Form Dairy Herd Health Symposium

Name _____
 Address _____
 City/State/Zip _____
 Email address _____
 Phone _____
 # attending _____

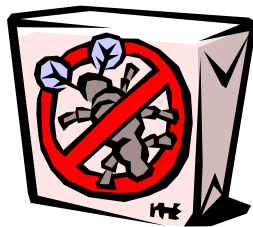
Mail to:
 Maria Bendixen,
 Dairy & Livestock Agent
 Clark County UW-Extension
 517 Court St Rm 104
 Neillsville, WI 54456

PESTICIDE APPLICATORS RE-CERTIFICATION CLASSES

The Clark County UW-Extension will be holding the following pesticide re-certification meetings from **9:30 a.m. - 3:30 p.m.** on:

General Farming Training & Testing

- **Wednesday, March 2**
Colby VFW
Hwy 13, Colby
- **Tuesday, March 8**
Neillsville Courthouse
Auditorium, 517 Court St
Neillsville
- **Thursday, March 10**
Thorp Fire Hall
101 So Wilson St, Thorp



If you are interested in getting re-certified you can pick up material at the Clark County UW-Extension Office, 517 Court Street, Courthouse, Rm 104, Neillsville WI 54456 or send in your check for \$35.00 made payable to the Clark County UW-Extension.

Lunch is on your own — bring a sack lunch.

Self-study is another option that you might want to consider. If interested in self-study you would need to make an appointment, at your convenience, and come to our office to take the test.

If you have any questions regarding pesticide re-certification contact Richard Halopka, Clark County Crops & Soils Agent at 715-743-5121.

CENTRAL WI FORAGE COUNCIL ANNUAL MEETING
 THURSDAY, DECEMBER 16 2010
 ABBYLAND TRUCK STOP, CURTISS
 10:30 AM — 2:30 PM

AGENDA

- Midwest Forage Association Membership benefits
- Annual Business Meeting
- 2011 Crop Budget Cost Calculator for Wisconsin, *Ken Barnett, UW-Extension Educator*
- Nutrient Requirements for Legume & Grass Forages, *Richard Halopka, Clark County UW-Extension*
- Potassium and Sulfur Survey for Alfalfa, *Jerry Clark, Chippewa County UW-Extension*
- Organize activities for 2011

There is a \$5.00 fee for this program to cover the meal. Please pre-register by calling the Clark County UW-Extension office by December 9th. This helps with planning meals and handouts.

For more information or to register contact:

Richard Halopka
 Crops & Soils Agent
 Clark County UWEX
 517 Court Street, Room 104
 Neillsville WI 54456
 715-743-5121

MANAGING THE DETAILS OF DAIRY MODERNIZATION
 THURSDAY, JANUARY 6, 2011
 ALLISON'S SUPPER CLUB, ABBOTSFORD
 10 AM — 3 PM

TOPICS TO BE DISCUSSED

- **Achieving Better Cow Comfort in Transition and Lactating Cows**
Nigel Cook, UW-Madison School of Veterinary Medicine
- **Tools for Managing an Efficient Milking Parlor**
Doug Reinemann, UW-Extension Milking Systems Specialist UW- Madison
- **Ventilation & Cow Cooling Strategies**
Brian Holmes, UW- Extension Farmstead Engineering Specialist
- **Rubber Flooring Does it Pay?**
Maria Bendixen, Clark County Dairy and Livestock Agent
- **Handling Sand**
Matt Zoschke, Clark County Land Conservation

registration is required. Registrations received after deadline will be \$30/person. Make checks payable to: **UW-Extension**

Registration deadline:
December 28, 2010.

Mail your check to Maria Bendixen, Clark Co UWEX, 517 Court St, Room 104, Neillsville WI 54456.



For more information or to register for this program contact the Clark County UW-Extension office at 715-743-5121.

Program Sponsored by:
 Clark & Marathon County UW-Extension Offices
 Partnership for Progressive Agriculture



The cost for this workshop is \$25/person. Pre-

CATTLE FEEDER CLINIC
JANUARY 13, 2011
MARSHFIELD AG RESEARCH STATION
10 AM—3 PM

A SEMINAR SERIES FOR

- ◆ Beef Cattle Feeders
- ◆ Dairy Steer Feeders
- ◆ Ag Professionals
- ◆ Educators

TOPICS

- **Antibiotic Residue Challenges in the Beef Industry**, Sandy Stuttgen, Taylor County Agricultural Agent
- **2011 Livestock Market Outlook and Livestock Gross Margin overview**, Dr. Brenda Boetel, UW Extension Livestock Economist
- **Implant Considerations and Management**, Bill Halfman, UW Ag Extension – Monroe County
- **Management Strategies When Feed Prices are High**, Dr. Amy Radunz, UW Extension Beef Specialist

Cost for the workshop is \$20/person. Pre-registration is required. Registrations received after deadline will be \$25/person. Registration is also available by sending a check to the Clark County UW-Extension office by January 3rd.

Mail to: Clark County UW-Extension, 517 Court Street, Room 104, Neillsville WI 54456.

For more information contact the Clark County UW-Extension at 715-743-5121.

Online registration is available at <http://www.eventbrite.com/event/1022469233>.



DAIRY NUTRITION MEETING
FEBRUARY 1, 2011
GREENWOOD GALLEY & PUB
10 AM—2 PM

Topics to be discussed:

- **Benefits and Cost of Feeding Multiple Lactating Cow Rations** (*Matt Lippert, Wood County Agriculture Agent*)
- **Grass and Legume Forages** (*Dan Undersander, Forage Agronomist*)
- **All Corn is not Created Equal** (*Pat Hoffman, Dairy Herd Specialist*)

Make checks payable to: **UW-Extension**
 Registration deadline: **January 24, 2011**

Mail to: Maria Bendixen
 Clark Co UWEX
 517 Court St, Room 104
 Neillsville WI 54456

Cost for the workshop is \$15/person. Pre-registration is required. Registrations received after deadline will be \$20/person.

Call the Clark County UW-Extension office for more information 715-743-5121.

FARM EMPLOYER MEETING

JANUARY 27, 2011

Loyal American Legion Hall

11:00 AM—2:00 PM

Employee management on farms comes with a unique set of challenges. Hours of work can be unpredictable and many times farm workers work odd hours. Keeping employees happy and motivated in those kind of conditions in a time of tight agricultural margins can make or break of farming operation. This workshop is designed to help farm employers deal with some of the issues of employee management.



- **Employee Recruitment and Retention**, Gregg Hadley, Farm Financial Management Specialist, UW-Extension.

Finding the right kind of help for your farming operation can be tough. Management styles can make one farms best person another's worst. Matching your management style with the kind of employees you hire can really help in retention and motivation of employees. Gregg will help producers think about the best way to find the right person and how to keep and train the ones you have.

- **Creative Compensation**, Maria Bendixen, Clark County Dairy & Livestock Agent.

How much does it mean to your employees to have lunch brought to them on days that they work overtime because of crop season or hoof trimming day? There are things that you can do to keep employees happy that are not monetary. In times of tight cash flow using some creative ways to compensate employees for their efforts might be beneficial to you business. Maria will offer some ideas for creative compensation and share data about what is important to farm employees.

- **What you need to know about workman's compensation insurance and it's legal issues**, Department of Workforce Development.

- ⇒ At what point do you need to start carrying workman's compensation insurance?
- ⇒ What are the laws regarding employee's getting hurt while working for you?
- ⇒ A representative from the Wisconsin Department of workforce development will be on hand to answer your questions and offer advice on how to deal with this issue and protect your farm from this very real liability.

Cost of this workshop is \$20.00 per person. Pre-registration is required one week in advance. Make check payable to: UW-Extension. Mail to: Clark County UW-Extension, 517 Court St Rm 104, Neillsville WI 54456. If you have any questions call 715-743-5121.

DAIRY PROMOTERS TO PRESENT AWARDS FOR LOW SOMATIC CELL COUNT

The Clark County Dairy Promotion committee is once again presenting awards to Clark County dairy producers with a somatic cell count (SCC) average of less than 125,000 for the year. Awards will be presented at the Dairy Promoters Annual Meeting in March in Greenwood.



Producers with a 2010 SCC less than 125,000 need to contact the Clark County Extension Office at 743-5121 by February 15th. Producers need to present proof of their 2010 SCC average.

If interested in attending the annual meeting contact Theresa, Clark County UW-Extension office at 715-743-5121.

FARM FINANCIAL RECORDKEEPING USING QUICKBOOKS BEGINNER'S WORKSHOP

Tuesday, January 11, 2011

10:00 a.m. to 3:00 p.m.

**NorthCentral Technical College – West Campus
624 E. College St., Medford, WI**

Cost: \$20.00 per person

***Advance Registration With Payment to "UW-Extension"
Required by December 21, 2010***

Quickbooks is a popular financial recordkeeping program and management tool. Quickbooks allows you to track and manage income, expenses, bank accounts, receivables, inventory, fixed assets, payables, loans, payroll and equity in your farm business. Quickbooks also provides you with standard and customized detailed reports that are essential to making good decisions.

During this hands-on computer session you will develop a simple set of farm financial records and reports. Learn how Quickbooks is structured, how its files work, and how to navigate the system to tailor your farm's recordkeeping needs.

SPONSORS



Beginner's Quickbooks Registration Form

Deadline: December 21, 2010

Name: _____

Address: _____

City/State: _____

Zip: _____ County: _____

Phone: _____

Email: _____

Register early as enrollment is limited!

Send Registration form and check to:

UWEX Taylor County
925 Donald St, Room 103
Medford, WI 54451

Make Check out to: "UW-Extension"

Registration Cost: \$20.00
(includes lunch, manual, flashdrive with example chart of accounts)

Please indicate dietary and/or accessibility needs:

***For more information contact:
UWEX Taylor County: 715-748-3327***

PURE LIVE SEED

Dan Undersander, Forage Agronomist

We have paid little attention to Pure Live Seed (PLS) in the Midwest because we have generally had high quality seed (greater than 90% germ and 98% purity). But the short forage seed supply has caused some low quality seed to come on the market. To avoid being caught paying market price for low quality seed take special care to check the seed tag and compare PLS among lots of seed to be purchased.

A bag of seed consists of inert material such as dust, chaff, and seed coating; weed and other crop seed; and Pure Live Seed (PLS) of the desired species. Since every seed lot has a different analysis, and only pure live seed will produce plants, it is important to calculate the Pure Live Seed in a bag. This calculation will allow accurate price comparison and adjustment of seeding rate, if necessary.

Begin by checking the sample seed tag for the analysis. First, find the *percent germination*. This is the percent of seeds that germinated in a standard test. Most of our crops have been greater than 90% germination and we have seldom made any adjustments. But with some short forage supplies, some lots of seed may have germinations as low as 60%. Check the label so you are not caught off guard.

Then find the *percent purity* on the seed tag. This is the percent of the weight in the bag that is actually seed. High quality seed lots will be over 95% purity, but seed coating, for example, may reduce the seed purity to 70%.

Multiply percent germination times percent purity and divide by 100 to find the PLS. For example:

$$(95\% \text{ germ} \times 70\% \text{ purity}) / 100 = 66.5\% \text{ PLS}$$

This lot of seed only has 66.5 lbs actual live seed for every 100 lbs.

Use PLS to determine the best seed buy — Since PLS is what will produce plants in the field or pasture, with varying seed qualities, seed cost per pound must be adjusted for the PLS to accurately compare seed prices. To find out what you're *really* paying, first determine the PLS of seed you're considering, as described above. Then divide the cost per pound by the PLS to get the cost per pound of PLS. For example:

$$\$4.00 \text{ per pound} / 70\% \text{ PLS} * 100 = \$5.71 \text{ per pound of PLS}$$

or

$$\$4.00 \text{ per pound} / 90\% \text{ PLS} * 100 = \$4.44 \text{ per pound of PLS}$$

The table following gives actual seed costs for 50 lb bags of seed with varying prices and PLS.

Pure Live Seed Cost for 50 pounds of seed based on seed purity and cost per bag									
PLS	Sale Price of 50 pound Bag								
	\$125.00	\$137.50	\$150.00	\$162.50	\$175.00	\$187.50	\$200.00	\$212.50	\$225.00
95	\$131.58	\$144.74	\$157.89	\$171.05	\$184.21	\$197.37	\$210.53	\$223.68	\$236.84
90	\$138.89	\$152.78	\$166.67	\$180.56	\$194.44	\$208.33	\$222.22	\$236.11	\$250.00
85	\$147.06	\$161.76	\$176.47	\$191.18	\$205.88	\$220.59	\$235.29	\$250.00	\$264.71
80	\$156.25	\$171.88	\$187.50	\$203.13	\$218.75	\$234.38	\$250.00	\$265.63	\$281.25
75	\$166.67	\$183.33	\$200.00	\$216.67	\$233.33	\$250.00	\$266.67	\$283.33	\$300.00
70	\$178.57	\$196.43	\$214.29	\$232.14	\$250.00	\$267.86	\$285.71	\$303.57	\$321.43
65	\$192.31	\$211.54	\$230.77	\$250.00	\$269.23	\$288.46	\$307.69	\$326.92	\$346.15
60	\$208.33	\$229.17	\$250.00	\$270.83	\$291.67	\$312.50	\$333.33	\$354.17	\$375.00

Use PLS to adjust seeding rate — To determine needed seeding rate, check the seeding rate recommendations with the hay and pasture seeding rate calculator at <http://www.uwex.edu/ces/forage/> or in UW Extension publication A1525, available at local county extension office. If PLS seeding rate is less than 85% of those shown, you should adjust the seeding rate according the calculated PLS. For example, if the PLS is 70% and you intend to seed 10 lbs per acre:

$$10 \text{ pounds} / 70 * 100 \text{ PLS} = 14.3 \text{ pounds}$$

This is a significant difference and if you hadn't made this adjustment, you'd be about 40 percent under the target seeding rate.

Many times, purity and germination are high enough that a significant adjustment will not be necessary. However, even seed with 90 percent purity and 90 percent germination will have 20 percent less viable seed than you think if you don't consider PLS. So don't overlook PLS when you buy or plant forage seed.

ARE YOU USING N-SERVE OR INSTINCT?

New WDATCP interpretations will require custom applicators to become certified commercial pesticide applicators

Roger Flashinski, Pesticide Applicator Training Program

The Products

N-Serve and Instinct are nitrogen stabilizers to inhibit the bacteria that naturally convert N from the ammonium form to the mobile nitrate form. Although both allow similar application methods and which nitrogen products they can be applied with, in Wisconsin N-Serve is typically mixed with anhydrous ammonia or UAN and injected in the soil whereas Instinct is typically mixed with liquid manure or UAN and either injected in the soil or surface applied. Instinct has an advantage in that it is a microencapsulated formulation that remains stable on the soil surface for up to 10 days, allowing growers flexibility in manure application and incorporation. Both N-Serve and Instinct are registered as pesticides by the EPA.

The Past

In past WCM newsletter articles, I have reiterated WDATCP's stance that a fertilizer treated with either N-Serve or Instinct is for the purpose of protecting the fertilizer. The treated fertilizer, then, is applied to the crop or crop site. For this reason, the fertilizer with N-Serve or Instinct is considered a "treated article", exempt from further EPA regulation. Thus, a person making a commercial application (e.g., custom applicator, custom manure hauler, cooperative employee, etc.) of a fertilizer treated with N-Serve or Instinct is not required to obtain an individual commercial pesticide applicator certification and license. Likewise, the employer of this individual is not required to obtain a commercial pesticide application business license.

The New

Due to the extensive amount of N-Serve treated fertilizer and Instinct treated manure being applied in Wisconsin, WDATCP completed a more extensive review of the N-Serve product label and Instinct—manure mixture pesticide applications. They also consulted with the Registration Division at EPA Headquarters. The response from EPA is that neither N-Serve treated fertilizer nor Instinct treated manure is an application of a pesticide treated article but, rather, is a traditional fertilizer-pesticide mixture application. In other words, EPA considers a fertilizer treated with N-Serve or Instinct no differently than a dry fertilizer impregnated with a herbicide for

simultaneous application.

The Future

Based on their review and EPA's interpretation, WDATCP has determined that all commercial applicators that inject or make applications of a fertilizer or manure mixing containing N-Serve or Instinct are not considered commercial applicators for hire. Therefore, such persons must be certified and licensed as commercial applicators in the *Field & Vegetable Crops* category (1.1). Additionally, their employer must hold an active commercial pesticide application business license.

The Net Effect

The new pesticide certification requirements only affect commercial applicators who apply N-Serve or Instinct on a custom basis. Because neither product is a restricted-use pesticide, a farmer may make either application of the pesticide—fertilizer mixture on his/her own land without becoming a certified applicator.

Being that specialized equipment is needed in the filling of anhydrous ammonia tanks, the mixing and/or application on an N-serve—fertilizer mixture is normally performed by employees of an agricultural supplier who already are certified and licensed to make other types of for-hire pesticide applications.

Thus, WDATCP's new interpretation that an N-Serve treated fertilizer is no longer considered a treated article will have little effect within this segment of the industry.

However, custom manure haulers generally only deal with one product—manure—and generally only mixed and applied a single pesticide product in manure—Instinct. Thus, as a treated article, they have not been required up to this point to become certified and licensed pesticide applicators to apply this mixture. It is this segment of the industry that will be the hardest hit by these new interpretations.

HANDY BT TRAIT TABLE

CHRIS DIFONZO, MICHIGAN STATE UNIVERSITY
EILEEN CULLEN, UNIVERSITY OF WISCONSIN

With the increase in the number of traits stacked into individual transgenic corn hybrids, there is also more potential confusion at the time of seed purchase. This year and next, there is the potential for still greater confusion with the approval of several new product lines and trait combinations with modified refuge requirements. This is the first time in corn that different products from different seed companies can have different refuges. Growers purchasing Bt seed sign an agreement to plant and maintain a certain amount of refuge corn, so it is important to understand which products have reduced refuge and, more importantly, which do not.

With the increasing complexity comes the risk of ordering unnecessary traits, forgetting what hybrids were ordered back in the fall, forgetting which seed lot was planted where, planting an incorrect refuge, and expecting too much (or something different) from a particular trait. To add another wrinkle, the price of seed has steadily risen over the last few years—\$300 or more per bag is not unheard of for transgenic hybrids with seed treatments. Planting the right stack for a particular farm, with the correct refuge, becomes even more important. The table below summarizes the products and traits currently available, along with the spectrum of control and suppression. The table also lists refuge requirements and location. In previous seasons, the requirement for Bt corn in the Midwest was a 20% 'structured' refuge for both European corn borer and corn rootworm. As highlighted in the table, several products are now approved for either a reduced refuge or a Refuge-In-Bag (RIB), where the seed company mixes non-Bt seed in with the transgenic corn prior to bagging.

Trait Group (Current November 2010)	Bt protein	Insects controlled or suppressed	Herbicide tolerant?	Refuge % & location
Agrisure [Syngenta + Mycogen/DowAgro]				
Agrisure CB/LL	Cry1Ab	ECB <i>CEW, FAW, SB</i>	LL	20% - 1/2 mile
Agrisure GT/CB/LL	Cry1Ab	ECB <i>CEW, FAW, SB</i>	GT, LL	20% - 1/2 mile
Agrisure RW	mCry3A	CRW	—	20% - adjacent
Agrisure GT/RW	mCry3A	CRW	GT	20% - adjacent
Agrisure CB/LL/RW	Cry1Ab / mCry3A	CRW, ECB <i>CEW,FAW,SB</i>	LL	20% - adjacent
Agrisure 3000GT	Cry1Ab / mCry3A	CRW, ECB <i>CEW,FAW,SB</i>	GT, LL	20% - adjacent
Agrisure Viptera 3110	Cry1Ab / Vip3A	BCW, CEW,ECB,FAW,WBC <i>SB</i>	GT,LL	20% - 1/2 mile
Agrisure Viptera 3111	Cry1Ab / mCry3A / Vip3A	BCW,CEW,CRW,ECB, FAW,WBC <i>SB</i>	GT,LL	20% - adjacent
Herculex [Mycogen / DowAgro]				
Herculex 1	Cry1F	BCW, ECB,FAW,WBC <i>CEW</i>	LL,RR2	20% - 1/2 mile
Herculex RW	Cry34/35Ab1	CRW	LL	20% - adjacent
Herculex XTRA	Cry1F / Cry34/35Ab1	BCW, CRW,ECB,FAW,WBC <i>CEW</i>	LL, RR2 (some)	20% - adjacent
Optimum [DuPont / Pioneer]				
Optimum AcreMax1	Cry1F / Cry34/35Ab1	BCW, CRW,ECB,FAW,WBC <i>CEW</i>	LL, RR2	10% in the bag (CRW) Plus 20% - 1/2 mile (ECB)
Optimum AcreMax RW	Cry34/35Ab1	CRW	RR2	10% (non-Bt seed) in the bag
Optimum Intract Insect Protection	Cry1F / Cry1Ab	ECB,WBC,BCW,FAW <i>CEW, SB</i>	LL, RR2	5% - 1/2 mile
Yieldgard [Monsanto]				
YieldGard CB (YGCB)	Cry1Ab	ECB <i>CEW,FAW,SB</i>	—	20% - 1/2 mile
YieldGard RW (YGRW)	Cry3Bb1	CRW	—	20% - adjacent
YieldGard Plus	Cry1Ab / Cry3Bb1	CRW,ECB <i>CEW,FAW,SB</i>	YGPlus w/RR2	20% - adjacent
YieldGard VT Rootworm	Cry3Bb1	CRW	RR2	20% - adjacent
YieldGard VT Triple (VT3)	Cry1Ab / Cry3Bb1	CRW,ECB <i>CEW,FAW,SB</i>	RR2	20% - adjacent
Genuity [Monsanto or Monsanto + Mycogen / DowAgro]				
Genuity VT Double Pro (VT2P)	Cry1A.105 / Cry2Ab2	CEW,ECB,FAW	RR2	5% - 1/2 mile
Genuity VT Triple Pro (VT3P)	Cry1A.105 / Cry2Ab2 Cry3Bb1	CEW,CRW,ECB,FAW	RR2	20% - adjacent
SmartStax or Genuity SmartStax (GENSS)	Cry1A.105 / Cry2Ab2 Cry1F / Cry34/35Ab1 Cry3Bb1	BCW,CEW,CRW, ECB,FAW,WBC	RR2, LL	5% - adjacent

DAIRY MODERNIZATION ESSENTIALS

MARCH 8, 2011

Thorp Fire Hall

10 AM—3 PM

Program Agenda

- ⇒ **Farmstead Planning and Animal Housing**, Dave Kammel, UW-Madison Agricultural Engineer
- ⇒ **Out Wintering as an Option**, Kevin Mahalko, River Country RC&D
- ⇒ **Manure Handling and Storage**, Matt Zoschke, Clark County Land Conservation
- ⇒ **Low Cost Parlors**, Vance Haugen, Crawford County UW-Extension Agriculture Agent
- ⇒ **Making Modernization Pay**, Maria Bendixen, Clark County Dairy & Livestock Agent

For more information call 715-743-5121.

Cost of this workshop is \$10 per person. Pre-registration is required. Registrations received after deadline will be \$15. Make check payable to UW-Extension. **Registration deadline:** March 1st. Mail to: Clark County UWEX, 517 Court St Rm 104, Neillsville WI 54456.

FARM TRANSFER
FEBRUARY 2, 2011
 Abbotsford Community Hall
 10 AM—2 PM

More information will come in next month's newsletter.

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