

AGRICULTURE RESOURCE NEWSLETTER

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Harvesting / Pricing Wet Corn

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Delaying corn harvest to allow field drying is risky. Typically, Wisconsin growers can expect 1% or less kernel moisture reduction during November, and little if any during December, according to Scott Sandford, Extension Ag Engineer at UW-Madison.

As the corn gets dryer, combine shatter losses caused by the header increase. The longer the corn is allowed to stand in the field, the higher the losses. A two year study of field losses of corn left standing after October reported 3-5% loss in November, 22% in December and if the corn is allowed to stand in the field all winter, a loss of up to 40%. Balancing drying cost with time to finish harvesting, crop condition (lodging) and increased combine losses and lower corn prices makes the decision to delay corn harvest this fall especially tough many farmers in East central and Northeast WI.

Keep in mind it takes about 0.02 gallons of propane to remove one point of moisture from a bushel of corn, so to estimate drying costs for a high temperature dryer, multiply propane price by 0.02 and then multiply by the number of percentage points of moisture to be removed (ie. \$2/gal propane with corn to be dried from 28 to 15% (13 points) – \$2.00 x 0.02 x 13 = \$0.52 drying cost per bushel.”

For growers with low temperature dryers, this may be a year when the corn will be too wet to use this type of dryer in many areas, Sanford noted. Corn above 22% may heat or mold before it dries if the bin is loaded in a single fill. Options are to layer corn in small layers to increase the air flow per bushel or install a high temperature heater and dry the corn down to 20-22% with heat (140 to 150°F) and then switch to air-only drying to remove the remaining moisture. This is called combination drying and is one of the most energy efficient and cost effective drying methods.

If corn is being fed to cattle, it could be harvested and stored as high moisture corn to feed out over the winter in silos or poly bags to avoid drying. Corn for dry market should not be stored in poly bags unless temperatures are below freezing and storage should be considered very short term as heating and ensiling can occur if temperatures in the bag go above freezing.

To help farmers better evaluate their options, UW-Extension released a Smartphone app this fall to provide an easy way to help estimate market value of wet corn based on three variables – dry corn moisture, current corn moisture and price per bushel. The app is free and available for Android smart phones and tablets on the Google Play store by searching for “HMSC” or go to:

<https://play.google.com/store/apps/details?id=com.smartmapps.corncalculator&hl=en>

Farmers can use this app to help determine an equivalent value for wet shell corn when compared with a dry shell corn price - a link to current local elevator dry corn bid prices is also included in the app. The equivalent wet price is then calculated and displayed in both price per ton and price per bushel. Additional costs for drying and/or shelling can be evaluated under the expense tab. The app also features the ability to email the results directly to others (note, a table showing current HMSC value is also included on the bottom half of page 7).



“Ten Percent of life is what happens, ...ninety percent is how you react to it.”

- Charles Swindoll -

New Farmland Preservation Program in Waupaca County

On November 12th the Waupaca County Board passed a resolution creating the new 2014 Waupaca County Farmland Preservation (FP) Plan. This followed a two year planning process with participating towns and replaces the 1981 Waupaca County FP Plan. The old plan provided for contracts in eligible areas throughout the county. The new plan, beginning in 2015, will provide eligible farms with a state income tax credit within the eight participating townships (Bear Creek, Lebanon, Lind, Little Wolf, Matteson, Scandinavia and Union...see map next page). FP claims no longer need a contract with Waupaca County Land & Water Conservation Department. Claims are filed on state income tax forms. There is no cap on the amount of credit that an individual can claim or on the amount of acreage eligible for a credit. Eligible landowners may collect \$7.50 per acre, each year, by filing Schedule FC-A with their state income tax return for the prior calendar year. Existing FP agreement holders may upgrade to the new tax credit by meeting the following:

Eligibility Requirements:

- 1) Acres claimed must be located in a farmland preservation area identified in a certified county farmland preservation plan (see map). Eligible land includes Ag land, forested land, permanent undeveloped natural resource areas or open space.
- 2) Claimants must have \$6,000 in **gross** farm revenue in the past year or \$18,000 in the past three years. Income from rental receipts of farm acres does not count toward gross farm revenue. However, gross farm revenue produced by the renter on the landowner's farmland can be used to meet this eligibility requirement.
- 3) Claimants must be able to certify that all property taxes owed from the previous year have been paid.
- 4) Farmers claiming farmland preservation tax credits **must certify** on their tax form they comply with state soil/water conservation standards...and:
 - *New claimants must submit a Certification of Compliance with soil and water conservation standards that has been issued by the Waupaca County Land & Water Conservation Department (LWCD) with their income tax forms.*
 - *Claimants must submit a Nutrient Management Plan to LWCD by April 1 each year the credit is claimed.*
 - *Landowners not meeting current state soil & water conservation standards may develop a compliance*

Eligibility Requirements (cont):

schedule with the LWCD to be eligible to claim the credit. The Schedule of Compliance will allow landowners to claim the credit while defining a schedule to address conservation standards.

For more about Farmland Preservation eligibility contact Brian Haase in the Waupaca Co Land & Water Conservation Department at 715-258-6245.

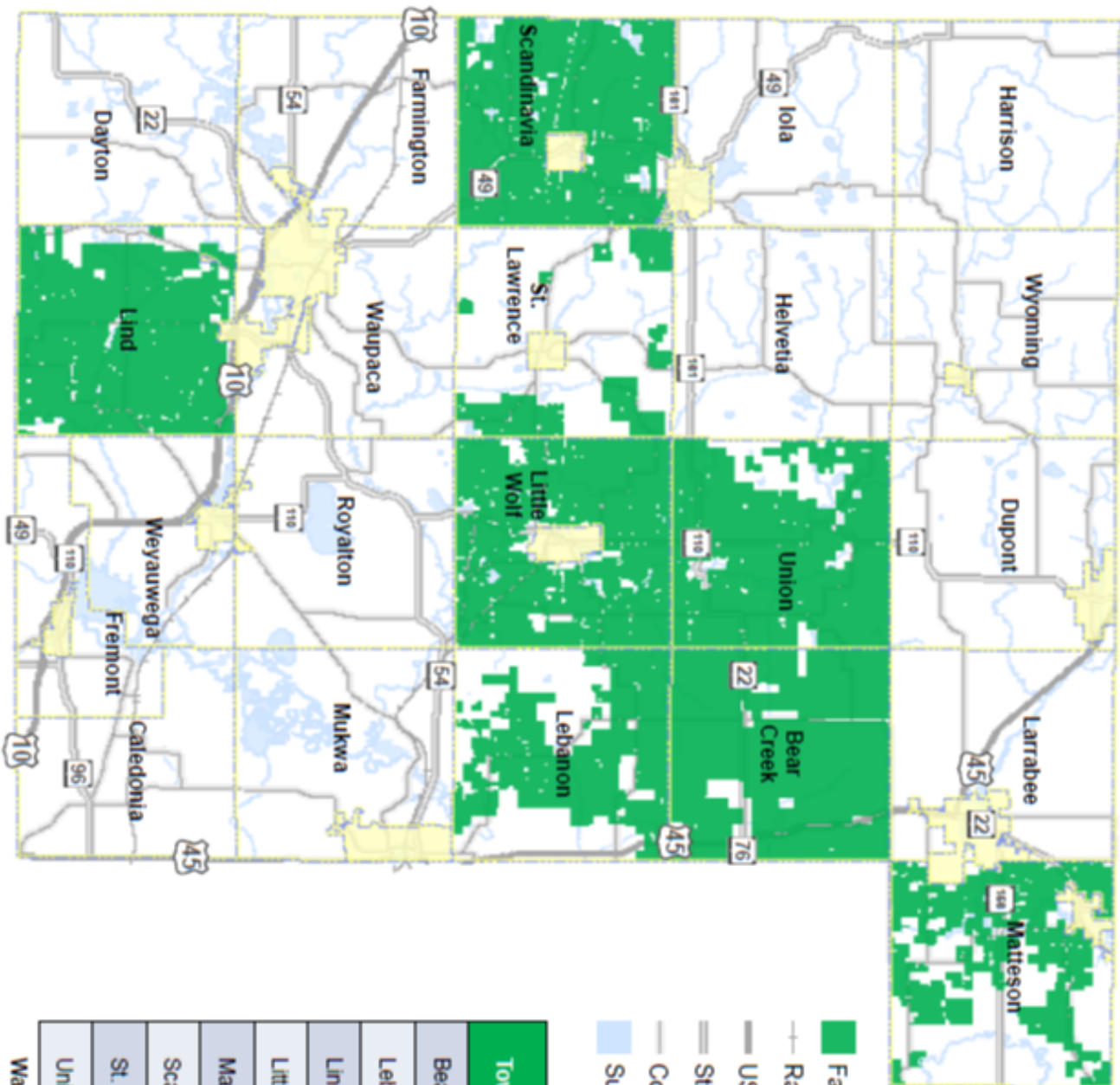
Non-Farm Development Restrictions:

- No non-farm residential development will be allowed without a rezone out of the underlying district and into Rural Residential (RR) or Rural Commercial (RC) – Farm Preservation. All rezones must be found compliant with State Statutes 91.48(1) prior to approval.;
- Rezoning for non-farm development allowed within FP areas will be regulated by the density requirements determined by the underlying base zoning districts. The density requirements for the base zoning districts will be consistent with the town Comprehensive Plan. As soon as development rights are no longer available for an owner, the remaining lands will be placed in a Restricted Development Overlay that will bar any further land divisions. Permits will still be issued for farm related structures other than principal structures;
- Minimum lot size for non-farm development allowed within this overlay will be 2 acres. A lot size larger than the minimum will require additional development rights at the rate of 1:2. For fractional sizes, the necessary development rights will be determined by dividing the proposed lot size by 2 then rounding up to the nearest whole number. For example, for a 9 acre proposed lot, $9/2=4.5$ which rounds up to 5 development rights;
- Transfer of development rights will be allowed from farm preservation areas into lands outside but not vice-versa. Transfer of development rights will also be allowed between farms of same ownership but not necessarily contiguous provided they are all in Farm Preservation areas and don't cross municipal boundaries;
- Secondary farm residences will be allowed provided that a development right is available and an affidavit is recorded with the Register of Deeds attesting to the following; the residences of the dwelling will be receiving a minimum of 51% of their income from the farm and in the event of the residence being transferred to a non-farm owner, a Certified Survey Map creating a separate parcel in accordance with existing size regulations will be approved and recorded in accordance with all existing regulations governing land divisions.

For more on FP development rights, contact Ryan Brown, Waupaca Co Planning/Zoning Director at 715-258-6255.

Farmland Preservation Areas

Waupaca County



- Farmland Preservation Area
- Railroad
- US Highways
- State Highways
- County Highways
- Surface Water Areas

Town	Acres of Farmland Preservation
Bear Creek	21,888
Lebanon	12,249
Lind	19,445
Little Wolf	19,575
Matteson	11,647
Scandinavia	20,184
St. Lawrence	4,614
Union	19,786
Waupaca Co.	129,388

Upcoming UW-Extension Crop Management Programs:

Annual Soil, Water & Nutrient Management Meetings

Dec 5 - Marshfield Ag Research Station
Dec 10 - Main Event, Cecil

- Cover Crops & Measuring Soil Health
- Soil Health and Crop Management Decisions
- Nitrogen sensors for Corn & Wheat
- Alfalfa S & K fertilization updates
- Precision Ag Technologies for Variable Rates
- WDATCP Erosion Vulnerability Assessment tool

Cost is \$40/person (including lunch). CEU credits also available. Register at least one week in advance by contacting either Adams Co UWEX for the Marshfield site (608-339-4237) or Shawano Co UWEX (715-526-6136).

Annual Agronomy Update Meetings

Jan 6 - 1:00 PM Fond du Lac Co UWEX
Jan 7 - 7:30 AM Liberty Hall, Kimberly

- UW Forage / Grain Variety Trials
- Alfalfa Stand Changes Over Time
- GMO Alfalfa Performance
- Variable Corn Seeding Rate
- Soybean/Winter Wheat Review
- In-furrow Soybean applications

CEU credits are available for this program. Contact Mike Rankin for the Fond du Lac site (920-929-3170 or mike.rankin@ces.uwex.edu) and Kevin Jarek for the Kimberly location (920-832-5119 or kevin.jarek@ces.uwex.edu) Pre-register required to avoid late fees (\$18, plus meal).

Private Pesticide Certification Training

March 4 (Wed) 9:00 AM Courthouse, Waupaca

Those who need to re-certify or would like to become certified private pesticide applicators for field or vegetable crops can register for the training program scheduled in Waupaca County this winter.

The training fee is \$30 per person (certification good 5 yrs). Register with the UWEX office at the courthouse in Waupaca. For an additional \$5 (\$35 total), the training manual can be mailed. Call (715-258-6230) or send me an Email (greg.blonde@ces.uwex.edu) for more information.

New IoH Law / Road Permit Local Meetings

As farming has modernized, agricultural equipment is now larger and heavier than ever. Although this can improve efficiency, it also raises concerns about the impact large equipment has on road wear and maintenance.

In Wisconsin, the state Department of Transportation convened a study group with reps from state and local governments, law enforcement, citizens, and farm groups to develop recommendations for changes to state law governing the use of highways by agricultural equipment. The resulting legislation, Wisconsin Act 377, was signed into law April 23rd, 2014.

The law updates the definition of agricultural vehicles, or Implements of Husbandry (IOH), and creates a new class of vehicles known as Agricultural Commercial Motor Vehicles (Ag CMV). IOHs are generally the types of vehicles that were manufactured and designed for agricultural use, and Ag CMVs are generally vehicles designed primarily for highway use, but have been modified in some way for exclusive agricultural use.

Waupaca County formed a work group of local town officials with knowledge of farming to study the new law and develop recommendations for local implementation. Their recommendations to town and county officials will be presented at four regional meetings on the following dates/locations.

7:00 PM Thursday, January 8

Manawa Elementary School

800 Beech St, Manawa

10:00 AM Thursday, January 15

Bear Creek Town Hall

E9107 Silver Creek Rd, Bear Creek

10:00 AM Thursday, January 22

Waupaca Town Hall

N3514 CTH E, Waupaca

10:00 AM Thursday, January 29

Lebanon Town Hall

N5844 Buelow Rd, New London

The same program will be offered in each location, including an overview of the new law and recommendations for local implementation next spring. Town supervisors, farmers and custom operators are all encouraged to attend, no advance registration needed.



2015 Cow College

FVTC Regional Center
Clintonville, Wisconsin

January 6 (1-3 PM) - Improving Feed Efficiency

Randy Shaver, Victor Cabrera & Francisco Contreras

UW-Madison Extension Dairy Specialists,

Learn about current grouping strategies and limitations from a recent survey of more than 400 WI & MI dairy herds, as well as current UW recommendations for nutritional grouping and management strategies to help improve feed efficiency and profitability on your dairy farm.

January 13 (1-3 PM) - Managing Fresh Cows

Dr. Gary Oetzel, DVM / Professor

UW-Madison School of Veterinary Medicine

Topics include common pitfalls in fresh cow disease diagnosis and treatment; developing logical treatment protocols, legal drug use, identification and strategic treatment for high risk cows. The presentation will include new data from Dr. Oetzel's field research on ketosis and hypocalcemia.

January 20 – Farm Tour (eastern Shawano County)

10:00 AM Horsens Home Stead Farm, W1980 Co Hwy C, Cecil WI

11:15 AM Tauchen Harmony Valley, N3399 Broadway Rd, Bonduel WI

12:30 AM Lunch & Panel Discussion (Hartland Town Hall, Bonduel)

Panelists Paul Jandrin, AgSource DHI Service Coordinator and Mark Doornink, Valley Ag Software Senior Support Specialist, will give updates on new information / technology tools to help improve monitoring and management of your dairy herd.

Register for the sessions you plan to attend: ☐ January 6 ☐ January 13 ☐ January 20 (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 Dec. 31)

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

Farm Building Rental Rate Survey

Farm buildings and livestock facilities often outlast their owner's need for them, but can still provide usable service. Farm operators and livestock producers may be able to make use of certain types of farm buildings but are not in a position to invest in new facilities. Both parties can benefit from a leasing arrangement. However, information about common rental rates for farm buildings is not easily obtainable.

The information in this publication was summarized from the results of a survey of farm operators, farm owners, professional farm managers and rural appraisers in the north central region of the U.S. The North Central Farm Management Extension Committee sincerely thanks all the agricultural professionals who contributed.

The survey assumed that building tenants would provide labor and management and pay the cost of utilities and minor upkeep. Owners would generally be responsible for major repairs and insurance coverage. Individual rental rates will vary according to the age, condition, size, location and efficiency of the particular building being rented.

For more information about determining rental rates and terms see publication NCFMEC-04, "Rental Agreements for Farm Buildings and Livestock Facilities." For a sample lease form, see publication NCFMEC-04A, "Farm Building or Livestock Facility Lease." Both publications are available for no charge at the following website: <http://AgLease101.org>.

Type of Building	Number of Responses	Unit on Which Rent is Paid	Average Rent Paid	Range of Rents Paid	Average Capacity of Building
Beef					
Finishing, open lot & shed	9	\$/head/day	\$.12	\$.03 – .33	282 head
Dairy					
Milking parlor and cow housing	9	\$/cow/mo.	\$12.16	\$6.25 – 16.67	177 stalls
Heifer housing					
–no labor, no feed	3	\$/head/day	\$.31	\$.27 – .33	
–with labor, no feed	3	\$/head/day	\$.67	\$.56 – .85	
–with labor and feed	3	\$/head/day	\$2.28	\$2.15 – 2.40	
Swine					
Farrowing	5	\$/crate/year	\$360	\$165 – 660	30 crates
Nursery	7	\$/pig through	\$4.09	\$1.33 – 6.00	1,350 spaces
Finishing	16	\$/ pig finished	\$12.93	\$6.00 – 19.00	1,334 spaces
Machinery Storage					
Machine shed, all	75	\$/sq. foot/year	\$.45	\$.02 – 1.65	3,845 sq. ft.
–with concrete floor	26	\$/sq. foot/year	\$.53	\$.06 – 1.65	3,927 sq. ft.
–without concrete floor	36	\$/sq. foot/year	\$.40	\$.08 – 1.50	3,445 sq. ft.
–with high doors	35	\$/sq. foot/year	\$.52	\$.10 – 1.65	4,474 sq. ft.
–without high doors	27	\$/sq. foot/year	\$.40	\$.06 – 1.50	2,513 sq. ft.
–over 10 years old	60	\$/sq. foot/year	\$.43	\$.02 – 1.65	3,928 sq. ft.
–1 to 10 years old	6	\$/sq. foot/year	\$.75	\$.06 – 1.50	3,773 sq. ft.

Type of Building	Number of Responses	Unit on Which Rent is Paid	Average Rent Paid	Range of Rents Paid	Average Capacity of Building
Grain Storage					
Grain bin, all	11	\$/bushel/month	\$.027	\$.015 – .05	30,635 bu.
Grain bin, all	78	\$/bushel/year	\$.14	\$.05 – .25	26,919 bu.
Up to 10,000 bu.	43	\$/bushel/year	\$.13	\$.05 – .25	8,005 bu.
Over 10,000 bu.	34	\$/bushel/year	\$.16	\$.07 – .25	25,000 bu.
Hay Storage					
Small square bales	4	\$/bale	\$.12	\$.07 – .25	4,825 bales
Large square bales	5	\$/bale	\$2.81	\$1.50 – 3.50	225 bales
Large round bales	3	\$/bale	\$5.24	\$5.00 – 5.71	423 bales
Rural Housing					
House on farm, all	110	\$/month	\$568	\$100 – 1,300	
–1 to 50 years old	24	\$/month	\$598	\$300 – 1,000	
–more than 50 years old	56	\$/month	\$509	\$100 – 1,200	
–2 bedrooms	12	\$/month	\$435	\$100 – 700	
–3 bedrooms	40	\$/month	\$499	\$150 – 850	
–4 or more bedrooms	22	\$/month	\$626	\$200 – 1,200	

Equivalent Price/Ton* of High Moisture Shelled Corn

Moisture % Wet	lbs Wet Kernels	% Shrink	Dry Bushels	Price per Dry Bushel									
				\$3.00	\$3.10	\$3.20	\$3.30	\$3.40	\$3.50	\$3.60	\$3.70	\$3.80	\$3.90
15.0	2000	0.00	35.71	\$107.14	\$110.71	\$114.29	\$117.86	\$121.43	\$125.00	\$128.57	\$132.14	\$135.71	\$139.29
16.0	2000	1.18	35.29	\$105.88	\$109.41	\$112.94	\$116.47	\$120.00	\$123.53	\$127.06	\$130.59	\$134.12	\$137.65
17.0	2000	2.35	34.87	\$104.62	\$108.11	\$111.60	\$115.08	\$118.57	\$122.06	\$125.55	\$129.03	\$132.52	\$136.01
18.0	2000	3.53	34.45	\$103.36	\$106.81	\$110.25	\$113.70	\$117.14	\$120.59	\$124.03	\$127.48	\$130.92	\$134.37
19.0	2000	4.71	34.03	\$102.10	\$105.50	\$108.91	\$112.31	\$115.71	\$119.12	\$122.52	\$125.92	\$129.33	\$132.73
20.0	2000	5.88	33.61	\$100.84	\$104.20	\$107.56	\$110.92	\$114.29	\$117.65	\$121.01	\$124.37	\$127.73	\$131.09
21.0	2000	7.06	33.19	\$99.58	\$102.90	\$106.22	\$109.54	\$112.86	\$116.18	\$119.50	\$122.82	\$126.13	\$129.45
22.0	2000	8.24	32.77	\$98.32	\$101.60	\$104.87	\$108.15	\$111.43	\$114.71	\$117.98	\$121.26	\$124.54	\$127.82
23.0	2000	9.41	32.35	\$97.06	\$100.29	\$103.53	\$106.76	\$110.00	\$113.24	\$116.47	\$119.71	\$122.94	\$126.18
24.0	2000	10.59	31.93	\$95.80	\$98.99	\$102.18	\$105.38	\$108.57	\$111.76	\$114.96	\$118.15	\$121.34	\$124.54
25.0	2000	11.76	31.51	\$94.54	\$97.69	\$100.84	\$103.99	\$107.14	\$110.29	\$113.45	\$116.60	\$119.75	\$122.90
26.0	2000	12.94	31.09	\$93.28	\$96.39	\$99.50	\$102.61	\$105.71	\$108.82	\$111.93	\$115.04	\$118.15	\$121.26
27.0	2000	14.12	30.67	\$92.02	\$95.08	\$98.15	\$101.22	\$104.29	\$107.35	\$110.42	\$113.49	\$116.55	\$119.62
28.0	2000	15.29	30.25	\$90.76	\$93.78	\$96.81	\$99.83	\$102.86	\$105.88	\$108.91	\$111.93	\$114.96	\$117.98
29.0	2000	16.47	29.83	\$89.50	\$92.48	\$95.46	\$98.45	\$101.43	\$104.41	\$107.39	\$110.38	\$113.36	\$116.34
30.0	2000	17.65	29.41	\$88.24	\$91.18	\$94.12	\$97.06	\$100.00	\$102.94	\$105.88	\$108.82	\$111.76	\$114.71
31.0	2000	18.82	28.99	\$86.97	\$89.87	\$92.77	\$95.67	\$98.57	\$101.47	\$104.37	\$107.27	\$110.17	\$113.07
32.0	2000	20.00	28.57	\$85.71	\$88.57	\$91.43	\$94.29	\$97.14	\$100.00	\$102.86	\$105.71	\$108.57	\$111.43
33.0	2000	21.18	28.15	\$84.45	\$87.27	\$90.08	\$92.90	\$95.71	\$98.53	\$101.34	\$104.16	\$106.97	\$109.79
34.0	2000	22.35	27.73	\$83.19	\$85.97	\$88.74	\$91.51	\$94.29	\$97.06	\$99.83	\$102.61	\$105.38	\$108.15
35.0	2000	23.53	27.31	\$81.93	\$84.66	\$87.39	\$90.13	\$92.86	\$95.59	\$98.32	\$101.05	\$103.78	\$106.51
36.0	2000	24.71	26.89	\$80.67	\$83.36	\$86.05	\$88.74	\$91.43	\$94.12	\$96.81	\$99.50	\$102.18	\$104.87
37.0	2000	25.88	26.47	\$79.41	\$82.06	\$84.71	\$87.35	\$90.00	\$92.65	\$95.29	\$97.94	\$100.59	\$103.24
38.0	2000	27.06	26.05	\$78.15	\$80.76	\$83.36	\$85.97	\$88.57	\$91.18	\$93.78	\$96.39	\$98.99	\$101.60
39.0	2000	28.24	25.63	\$76.89	\$79.45	\$82.02	\$84.58	\$87.14	\$89.71	\$92.27	\$94.83	\$97.39	\$99.96
40.0	2000	29.41	25.21	\$75.63	\$78.15	\$80.67	\$83.19	\$85.71	\$88.24	\$90.76	\$93.28	\$95.80	\$98.32
41.0	2000	30.59	24.79	\$74.37	\$76.85	\$79.33	\$81.81	\$84.29	\$86.76	\$89.24	\$91.72	\$94.20	\$96.68

* If you must harvest this corn, subtract the harvesting costs; and if you can only use dry corn, subtract drying costs. Of course the price you pay will be determined by supply and demand conditions in your area and negotiations between you and the seller, but unless there are special circumstances it should not be above the prices shown here.

Waupaca County UW-Extension
Courthouse
811 Harding Street
Waupaca, WI 54981

Non-Profit Organization
U.S. Postal Paid
Waupaca, WI 54981
Permit No. 3

RETURN SERVICE REQUESTED



Upcoming Events:

Dec 10

UWEX Soil / Water Update Mtg
10 AM Main Event Cecil

Jan 6, 13, 20

Cow College 1-3 PM Clintonville
(see details inside)

Jan 7

UWEX Agronomy Update
7:30 AM Kimberly

Jan 8, 15, 22 & 29

Local IoH Road Permit Mtg
7:00 PM Manawa Elementary
School, 10:00 AM Bear Creek,
Town of Waupaca & Town of Lebanon
Town Hall

Feb 12

Forage Council Annual Mtg
10-3 Bear Lake, Manawa

March 4

Pesticide Applicator Training 9-3
Courthouse, Waupaca

Waupaca County
IoH Road Permit Meetings

Jan 8 - Jan 15 - Jan 22 & Jan 29



WI Act 377 was adopted earlier this year establishing weight limits for both Ag implements of husbandry (IoH) and Ag commercial motor vehicles (CMV's). Because of limited enforcement, widespread misunderstanding of the law, and a lack of clarity in the definition of agricultural equipment, many Ag CMVs and IOHs operating on Wisconsin's roadways were too heavy under previous law. Act 377 increased the allowable weights by approximately 15% and created a local, no-fee permit program that grants local governments the authority to allow oversized vehicles to travel legally on the roadways under their jurisdictions.

A series of short You-Tube videos including new definitions of IoH and Ag CMV's, new weight limits, lighting/markers, rules of the road, and local options for municipalities can be found at: www.youtube.com/user/widatcp/videos

Waupaca County UW-Extension and Highway Department are also hosting four regional meeting on January 8, 15, 22 and 29 Local Town Board members, farmers, custom operators and Ag service providers are all welcome to attend (for more details, including meeting locations, see page 4).

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