

Missouri Ag News

A Publication of University of Missouri Extension - Southeast Region

Volume 1, Issue 9

December 1, 2011

Specialist in Review

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| Crops | Horticulture |
| Engineering | Livestock |
| Forestry | Other |



As 2011 is coming to a close it is the hope of all extension professionals that we have successfully aided many of you to stimulate individual initiatives, self-determination, life-long learning and your ability and power to meet your aspirations. Our goal is to see those we help make their own plans and arrive at their own decisions. Working together we are able to implement new and existing practices to better the lives of the people around us.

This issue is packed with educational opportunities that we hope you will take advantage of. It is the time of year (winter) for the meetings that fill our heads with new ideas that can be put into practice. Look carefully for the opportunity that is right for you.

If you have a topic that you would like to see published in 2012 please feel free to email the idea to denklers@missouri.edu. We will work to provide the information in the newsletter.

In the tradition of holiday cheer and for those of you who may not have yet met all that extension has to offer through agriculture, these are the names to know.

You know Tony and David and Donna and Frankie, Kendra and Michael and Samuel and Sarah. Play along with this theme, Van Ayers is part of the team.

Anthony has Agronomy skills in corn and soybean crops. His education makes Doctor Ohmes tops.

David Reinbott, our Ag Business guru, provides budgets and plans for you.

Donna Aufdenberg has Horticulture knowledge. She is wise and we do acknowledge.

Frank Wideman with GPS, water or energy stands as the engineering man with the emergency plan.

Kendra Graham is the one to call with any Livestock question you have at all.

Mike Milam could write a cotton book, he is the go to Agronomist if you need an outlook.

Sam Atwell is new to the team but as a rice agronomist he is just a dream.

Sarah Denkler works with melon growers, cantaloupe and watermelon the size of boulders.

Van Ayers promotes alternative energy twists, as the Ag/ Rural Development Specialist.

Adjusting Feed For Cold Weather



calving cows each with one group receiving an adjustment for cold and the other with no adjustment. The weight gain during the last 4 ½ months of gestation was 26 pounds for the unadjusted ration and 115 pounds for the adjusted ration. Weight changes from fall to the following fall at weaning

Picture courtesy K. Graham

Did you realize that cattle need a little extra feed when the weather turns really cold? Before long we will have days with temperatures below 32°F. Researchers use the rule of thumb that a cow's energy requirements increase 1% for every degree the temperature or wind chill is below 32°F. For example, if the weather outside is 32°F and the wind chill is 5 °F then subtract $32 - 5 = 27°F$. The adjustment for energy would be 1% for every degree below 32 which is 5%. So for that day feed cows 105% of their daily requirement. If a cow receives 16 pounds of high quality grass hay then feed 16.8 pounds of that hay during the cold days. Wet hair coats cause more of a problem to where the energy requirements increase 2% for every degree the temperature drops below 59°F. Most of the time feeding that much feed would be impossible, so it is suggested to provide a smaller increase of the energy requirement over a 2 or 3 day period. According to research from Kansas State University there are several advantages to adjusting energy intake for the cold weather. The researchers compared two groups of 30 spring-

showed a 10 pound gain for cows with rations adjusted for cold and a 93 pound loss for the other group.

Reproductive advantages to adjusting rations for the cold were also found in another study. 82% of the cows with adjusted rations were cycling 60 days after calving, and only 65% of the other group were cycling. Conception rates were also affected with a 10 day spread between the two groups in favor of the adjusted ration group. The amount of extra feed fed totaled to 125 pounds of corn per cow. This sounds like a lot of feed but I guarantee the benefits will overcome the costs in the long run with heavier calves, less calving problems, better cow health, etc. If you are unsure of how much energy your hay contains contact any local extension office and we can have it tested for you. You would be surprised how the results turn out. I can also help you make a ration for your herd if extra supplementation is needed.

Kendra Graham, Livestock Specialist, University of Missouri Extension, Greenville, MO.

Annual Watermelon Meeting

American Legion in Kennett, MO

November 30, 2011 with registration at 7:30 am

The program runs from 8:00 am to 12:00 pm

Call 573-686-8064 to register.

Deadline Extended for Comments

The U.S. Department of Labor (DOL) has extended its comment period on proposed changes to child labor laws on farms. The deadline to submit comments is December 1, 2011.

Comments can be submitted electronically at www.regulations.gov. Have your comment typed out before going to the site as it will time out before you can finish typing. Type WHD-2011-0001-0001 in the "Enter Keyword or ID" box to find the proposed rule and comment page. It will be the only proposed rule that appears. Click on "Submit a Comment" on the right side of the screen.

Comments may also be submitted by U.S. mail to: Wage and Hour Division, U.S. Department of Labor, Room S-3502, 200 Constitution Avenue, N.W., Washington, DC 20210. Please include identification number RIN 1235-AA06 in the letter.

Irrigation/ Minimum Tillage Meeting

USDA Service Center, Dexter, MO

December 20, 2011

9:00 am to 11:30 am - Irrigation

1:00 pm to 3:00 pm - Irrigation

There is no fee to attend. All are invited. For questions contact Van Ayers, 573-568-3344 or ayersv@missouri.edu, University of Missouri Extension, PO Box 169, Bloomfield, MO 63825 or Janet Johns, Stoddard County Soil and Water Conservation District, Dexter, MO, 573-624-5939 extension 3, janet.johns@swcd.mo.gov.

Southeast Missouri Energy Conference

Thursday December 8, 2011
Clinton Building, Sikeston, MO

- | | |
|------------|---|
| 8:00 a.m. | Registration |
| 8:20 a.m. | Welcome and Introductions • Dr. Van H. Ayers, Agriculture and Rural Development Specialist University of Missouri Extension, Bloomfield, MO |
| 8:30 a.m. | Energy Funding and Energy Audits • Dr. Van H. Ayers and Mr. Brian Roberston, University of Missouri, Columbia, MO |
| 9:00 a.m. | Southeast Missouri Agriculture Energy Panel • Ms. Missy Marshall, Sikeston Area Chamber of Commerce; Mr. Jerry Bagby, Global Fuels; Mr. Julian Steiner, Stoddard County IDA |
| 9:30 a.m. | Biomass to Ethanol Project • Mr. Joaquin Alarcon, Director of Corporate Development and Mr. Doug Bice, Corporate Project Development Manager, Abengoa Bioenergy, Chesterfield, MO |
| 10:00 a.m. | Break |
| 10:30 a.m. | Southeast Missouri Biomass Survey • Dr. Joe Parcell, Professor, Agriculture Economics, University of Missouri, Columbia, MO. |
| 11:00 a.m. | MFA Biomass Project • Mr. Tim Woolridge, MFA Oil, Arkansas |
| 11:30 a.m. | Feasibility of Corn Stover in Missouri • Mr. Joe Horner, Extension Associate, University of Missouri, Columbia, MO |
| 12:15 p.m. | Lunch • Keynote Speaker: Mr. Mike Marshall, Alternative Federal Co-Chair, Delta Regional Authority |
| 1:30 p.m. | Informal Biomass Harvesting and Storage Discussion • Facilitator: Dr. Van Ayers |

Directions to Clinton Building: Take Malone Street (Hwy 62), turn north at airport (Selma St.), immediate left on Linn St., immediate right on Campanella. 501 Campanella Drive.

Registration fee is \$10, which includes lunch, and is payable at the door. Deadline to register is Friday, December 2. To register, contact Stoddard County Extension office at (573) 568-3344 or stoddardco@missouri.edu.

UNIVERSITY OF MISSOURI
 Extension

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2011 Regional Corn Meeting

Tuesday, December 13, 2011

Clinton Building, Sikeston, MO - register at 7:30 am

Pre-register with Anthony Ohmes (573-683-6129) or David Reinbott (573-545-3516)

TOPICS: Profitable Corn Production Practices; Using Weather Station Information from Cell Phones to Irrigate Corn; Glyphosate Resistance Weed Management; Grain Marketing Outlook & Strategies; Evaluating New Corn Insect Traits; The Risks & Rewards of Land Ownership; Update from the Missouri Corn Growers

Photovoltaic Tour (solar electric panels)

Thursday, December 15, 2012

John Lorberg Farm, Gordonville, MO 9:00 A.M. – 11:30 A.M.

Mr. John Lorberg has installed a photovoltaic for use on the farm. Electric power from the system is being used to offset his electric energy costs, with the excess sold to the power company. This discussion of photovoltaics and tour of Mr. Lorbergs installation is open to all, no fee.

Contact Van Ayers for more information at 573-568-3344 or ayersv@missouri.edu. Sponsored by University of Missouri Extension and USDA-NRCS.

Directions to the Lorberg Farm. Highway 25 to Gordonville, MO. Take Highway Z, west of Gordonville, cross bridge, turn left into Stone Haven Lane.



MAESTRO is a program funded by the U.S. Department of Energy and operated by the Missouri Department of Agriculture, University of Missouri and EnSave, Inc. The program offers farm Energy Management Plans, Technical Assistance and Home Energy Audits.

MAESTRO looks at ways to save energy on the whole farm including the farm residence through the installation of energy efficient equipment.

The audit helped me realize the potential of energy efficient equipment. I now look at my operation completely different.

Steve Shehadey, Dairy Farmer

Program Highlights:

- **Energy Management Plans** – a \$1,500 value for only \$250, FREE if you install the recommended equipment
- **Free Technical Assistance**
- **Home energy audit** – a \$500 value for only \$125, FREE if you install the recommended equipment
- **Incentives up to 75% of the total project cost, not to exceed \$5,000**
- **Loan buy down to 3%** - up to \$50,000, and
- **75% loan guarantee for loans up to \$50,000**

To receive incentives, projects must have 15% energy savings or greater.

For assistance call the MAESTRO TEAM at (800) 732-1399
MoAgEnergySavings.org

SAVING ENERGY. STRENGTHENING AGRICULTURE.



Energy saving technologies must be installed no later than November 30, 2012.

Funding is provided by the U.S. Department of Energy through the American Recovery and Reinvestment Act.

SPCC Compliance Date Extension for Farmers

The goal of the Spill Prevention, Control, and Countermeasure (SPCC program) is to prevent oil spills into waters of the United States and adjoining shorelines. Oil spills can cause injuries to people and damage to the environment. A key element of this program calls for farmers and other facilities to have an oil spill prevention plan, called an **SPCC Plan**. These Plans can help farmers prevent oil spills which can damage water resources needed for farming operations.

Under SPCC, a farm is: “a facility on a tract of land devoted to the production of crops or raising of animals, including fish, which produced and sold, or normally would have produced and sold, \$1,000 or more of agricultural products during a year.”

SPCC applies to a farm which:

- Stores, transfers, uses, or consumes **oil or oil products**, such as diesel fuel, gasoline, lube oil, hydraulic oil, adjuvant oil, crop oil, vegetable oil, or animal fat;
- and Stores more than **1,320 US gallons** in aboveground containers or more than **42,000 US gallons** in completely buried containers;
- and Could **reasonably be expected to discharge oil to waters** of the US or adjoining shorelines, such as interstate waters, intrastate lakes, rivers, and streams.

The SPCC program requires you to prepare and implement an SPCC Plan. If you **already have a Plan**, maintain it. **If you do not have a Plan**, you should prepare and implement one. Many farmers will need to have their Plan certified by a Professional Engineer (“PE”).

For More Information

Read the SPCC rule and additional resources: <http://www.epa.gov/emergencies/spcc>

Call or send an e-mail to the EPA Ag Compliance Assistance Center: 1-888-663-2155 <http://www.epa.gov/agriculture/agctr.html>

| What are compliance dates for farms? | |
|--------------------------------------|--|
| A farm starting operation..... | Must..... |
| On or before August 16, 2002 | Maintain existing SPCC Plan, revise or implement new |
| After August 16, 2002 through | Prepare and implement an SPCC Plan no later than May |
| After May 10, 2013 | Prepare and implement an SPCC Plan before beginning |

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If you are interested in receiving this publication via e-mail or being removed from the email list please send a request to denklers@missouri.edu.

Future Meetings & Events -

USA Rice Outlook Conference - December 7 to 9, 2011, Austin, TX

MU Extension Regional Soybean Meeting - January 18, 2012 from 8:00am to 12:00pm at the Clinton Community Building in Sikeston, MO;
 Registration at 7:30am - Anthony Ohmes (573-683-6129) or David Reinbott (573-545-3516)

2012 Ag Expo - January 20-21, 2012 at the Black River Coliseum in Poplar Bluff, MO. Friday 1-8pm and Saturday 9-3pm

Cotton and Rice Conference - January 31 to February 1, 2012 at the Tunica Convention Center in Tunica, MS. <http://www.nctd.net/graphics/confregistration1.pdf>

MU Annual Rice Meeting - February 2012 at Eagles Lodge in Dexter, MO

MU Extension Cotton Meeting - February 2012 at the MU T.E. "Jake" Fisher Delta Center in Portageville, MO