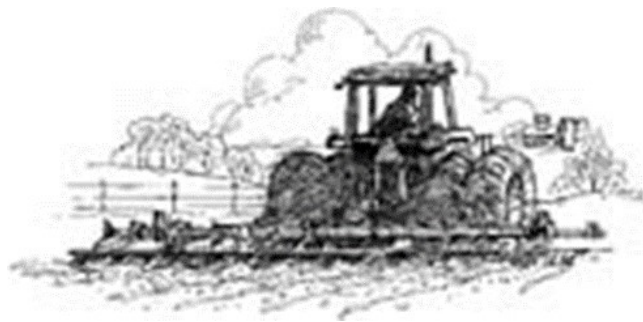


# TEXAS A&M AGRI LIFE EXTENSION



Volume XVI, Issue I

Jackson County Agri-News

January 2021

## Important Dates

- Jan. 15—5 Hour CEU Program—Virtual
- Jan. 20—Western Rice Production Conference—Virtual
- Jan. 21—Grain Handlers Conference—Virtual
- Jan. 22—Gulf Coast Regional Cattlemen's Workshop—Bay City
- Jan. 25-April 28—Generation Next—Ranching School
- Jan. 26—Feed Grain & Cotton Conference—Virtual
- Jan. 28—Victoria CEU Seminar—Virtual
- Jan. 29—Matagorda County Beef & Forage Seminar—Bay City
- Feb. 4—Private App. Lic. Training—JCSB Kitchen.

**AgriLife Extension**  
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Edna, TX 77957  
361-782-3312  
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## Texas Department of Agriculture Pesticide Applicator License

The Texas Department of Agriculture (TDA) has released information pertaining to all commercial, non-commercial, and private applicator licenses pertaining to required CEUs for license renewal. Commercial and Non-Commercial license holders are required to renew their license annually by attaining 5 CEUs. Previously license holders could not attain those 5 CEUs online in concurrent years. That ruling has been lifted for 2021 allowing license holders to attain all 5 hours online even if they did so in 2020. Private applicator license holders are required to renew by obtaining 15 CEUs in a 5-year period with a maximum of 10 CEUs being obtained online. TDA has relaxed that ruling for 2021 to allow private applicator license holders to obtain all 15 CEUs online.

## JACKSON COUNTY CATTLE RAISERS BANQUET POSTPONED

The JCCRA Membership Banquet has been postponed because of the issues with the COVID-19 virus. If later in the year things seem to clear up, we may schedule the banquet. Membership dues were usually collected before and at the banquet. We need you to continue your membership by sending in your check and the form below. We did well on the Heifer Raffle last year and it covered the 8 scholarships we gave out last May and the 4 we will be presenting this May. We will probably do another this fall for next year. Hopefully, we will get over this virus and get back to normal soon. For a copy of the membership sheet please call 782-3312 or email us for a copy [mrhillier@ag.tamu.edu](mailto:mrhillier@ag.tamu.edu)

## Mineral imbalances need to be considered in cattle deaths

Ranchers need to keep in mind that the wrong quantities of minerals can be dangerous or even deadly to cattle, said experts from the Texas A&M AgriLife Extension Service.

When it comes to cattle and minerals, what works for a rancher 700 miles away may actually work better for you than what works for a neighbor 7 miles down the road; it all depends on what is in your soil, supplements, feed, forage and water supply.

"There is no one-size-fits-all approach to minerals," stressed Joe Paschal, Ph.D., AgriLife Extension livestock specialist, Corpus Christi. "What works for your neighbor's cattle won't necessarily work for you. There are a lot of factors producers must take into consideration."

"Proper livestock nutrition is a key factor in your cattle's health and productivity," added Thomas Hairgrove, DVM, Ph.D., AgriLife Extension cattle veterinary specialist in the Texas A&M University Department of Animal Science. "Knowledge of your herd's mineral status is fundamental to developing an optimal herd health program."

The key to understanding individual needs centers on the total nutrition of the herd. For example, diets high in protein and/or potassium or low-carbohydrate diets can impair magnesium absorption, said Hairgrove.

He said zinc and copper need to be absorbed in a specific ratio. Excess zinc reduces the amount of copper absorbed and excess iron or sulfur can interfere with absorption of other minerals.

"In other words, an excess or deficiency of one mineral affects how other minerals function in the animal," said Hairgrove.

Sometimes, he said, extreme cases can lead to death in a herd. So, what happens when you find a dead cow, or multiple dead cows over a period of a few months or a year? Hairgrove and Paschal hope Texas producers and veterinarians realize AgriLife Extension offers an invaluable resource.



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# VIRTUAL WESTERN RICE PRODUCTION CONFERENCE

## JAN 20, 2021 ONLINE VIA ZOOM

2 TDA CEUs • CCA credits applied for

**PREREGISTRATION REQUIRED BY JAN 19 via EVENTBRITE**

8:00 a.m.	<b>WELCOME</b>
8:15 a.m.	Basics of Herbicide Resistance Development in Weeds - <i>Dr. Muthu Bagavathiannan</i>
8:45 a.m.	<b>BREAK</b>
9:00 a.m.	Rice Varieties and Current Breeding Programs in Rice - <i>Mr. Galen Franz</i>
9:30 a.m.	Insect Management - <i>Dr. Mo Way</i>
10:00 a.m.	TDA Pesticide Laws & Regulations Update - <i>Melissa Barton</i>
11:00 a.m.	Cost of Rice Production - <i>Dr. Joe Outlaw</i>
11:30 a.m.	Rice Market Outlook - <i>Dr. Thomas Wynn</i>
12:00 p.m.	<b>LUNCH BREAK</b>
12:50 p.m.	<i>Recognize upcoming retirement of Dr. Mo Way and Bob Little</i>
1:00 p.m.	Update on Conservation and Working Lands Programs - <i>Dennis Neumann</i>
1:30 p.m.	Rice Water Efficiency - <i>Dr. Michele Reba, Research Hydrologist</i> <i>USDA Agricultural Research Service</i>

**Click here to register**  
or call 979-532-3310

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# UPPER GULF COAST GRAIN HANDLERS CONFERENCE

***JANUARY 21, 2021 - VIRTUAL PROGRAM***

**Registration Fee : \$20**

Program - 8:25-3:00 pm

Please use the following link to  
 register:

[https://2021ugcgchc  
 .eventbrite.com](https://2021ugcgchc.eventbrite.com)

**5 CEUs**

Pending Approval from TDA

**FOR MORE INFORMATION**

Laramie Kettler  
 Colorado County  
 (979) 732-2082

Mike Hiller  
 Jackson County  
 (361) 782-3312

Aaron Sunrall  
 Matagorda County  
 (979) 245-4100

Corrie Bowen  
 Wharton County  
 (979) 532-3310

Kate Crumley  
 Wharton County  
 (979) 532-3310

**All attendees must register online by noon on January 20th, 2021. The conference will be virtual on the Zoom platform. Attendees will receive an email with program link.**



## Program Topics and Speakers

**Insect Management in Stored Grain Facilities**

**Dr. Dalton Ludwick - Texas A&M AgriLife Extension Entomologist**

**TDA Pesticide Laws and Regulations Update**

**Melissa Barton—Texas Department of Agriculture Pesticide Inspector**

**OSHA Update**

**Marianne McGee - OSHA Compliance Assistance Specialist**

**How to be Bug Free**

**Sid Chambers - Regional Sales Manager Central Life Sciences**

**Diversifying IPM Program for Stored Products: The Case of  
 Long-Lasting Insecticide**

**Dr. Rob Morrison - U.S. Department of Agriculture**

**Grain Truck Sanitation to Prevent Contamination**

**Joe Collins - Riviana**

**Fall Protection Demo**

**Chris Williams - Kennedy Equipment**

**Insect Identification**

**Kate Crumley - Texas A&M AgriLife Extension IPM Agent**

*Educational programs of the Texas A&M AgriLife Extension Service are open to all people without regard to race, color, religion, sex, national origin, age, disability, genetic information, or veteran status. The Texas A&M University System, U.S. Department of Agriculture, and the County Commissioners Courts of Texas Co-operating. Individuals with disabilities who require an auxiliary aid, service or accommodation in order to participate in this meeting are encouraged to contact the County Extension Office at (979) 732-2082 prior to the meeting to determine how reasonable accommodations can be made.*

# Gulf Coast Regional Cattlemen's Workshop & Trade Show

**Hosted by: Matagorda County Cattlemen's Association**

*Sponsored by the Extension Beef Program from Matagorda, Brazoria, Fort Bend, Wharton, Jackson, Victoria and Calhoun Counties*

Friday, January 22nd, 2021

Bay City Civic Center

201 7th St. (Hwy 35 West) - Bay City, Texas

### Schedule

1:30PM-4:30PM: Livestock & Forage Symposium (3CEUs Provided)

4:30- 6:00 PM: Registration & Trade Show

6:00- 6:30 PM: Dinner

6:30-8:00 PM: Program

### Speakers

Bob McCann - National Cattlemen's Beef Association - Policy Division Vice Chairman

Thomas B. Hairgrove, DVM, DABVP, PhD  
Professor and Extension Specialist

Kaleb McLaurin-Texas and Southwestern Cattle Raisers Association

### Event Sponsors

*Capital Farm Credit*

*Bay City Feed*

*Shoppa's Farm Supply*

*First State Bank*

*Prosperity Bank*

*Lansdown Moody*

*Columbus Livestock*

*Texas Farm Bureau*

*Wharton/Edna Livestock*

*Auctions*



**RSVP by: January 18 2021 979-245-4100**

**Free Admission  
and Door Prizes**



Due to COVID-19 protocol face mask will be required.



# **Victoria CEU Virtual Seminar**

## **Thursday, January 28, 2021**

**5 CEUs ( 3-General, 1-Laws & Regs,  
1-Integrated Pest Management)**

**For Texas Department of Agriculture Private, Commercial, and Non-  
Commercial Licensed Pesticide Applicators**

**Registration online only at:**

<https://www.eventbrite.com/e/victoria-ceu-virtual-seminar-tickets-128551784849>

**ZOOM INVITE WILL BE SENT AFTER YOU REGISTER**

**Program begins at 8:00AM**

**Cost: \$40 Registration Fee**

**POSSIBLE MANDATORY AUXIN TRAINING AFTERWARD**

**For more information call:**

**Victoria County Extension Office - 361-575-4581**

**Email: [mtbochat@ag.tamu.edu](mailto:mtbochat@ag.tamu.edu)**

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Matagorda County Texas A&M AgriLife Extension Service

# Matagorda County Beef & Forage Seminar

**Date:** January 29, 2021  
**Time:** 8:30 AM - Registration  
**Place:** Bay City Service Center  
 2105 Avenue M,  
 Bay City, TX 77414

**\$30.00 Online  
 or \$50 at the  
 Door**

Matagorda County AgriLife Extension service will be hosting a Beef & Forage Seminar on January 29, 2021 at 8:00 am, located at the Bay City Service Center. There will be lunch catered for this event, a \$30.00 fee payable online at : <https://matagordagrillifebeefandforageseminar.eventbrite.com> by January 20, 2021 or \$50 at the door.

We will have many guest speakers at this event such as Corrie Bowan - Wharton County CEA -Agriculture, he will be discussing wildlife conflict resolution. Dr. Megan Clayton - Extension Range Specialist, will be covering spot chemical application using drones. Dr. Mark Matocha - Extension Specialist Ag & Environmental Safety, will talk about pesticide updates and sprayer calibration. John Tomecek - Extension Wildlife Specialist, will discuss predator and pest management for livestock producers. Dr. Morgan Treadwell -Extension Range Specialist, will talk about prescribed fire management tool on agriculture land.

**Please call Taina at 979-245-4100 if you need assistance in signing up online.**

Aaron Sumrall, PhD County  
 Extension Agent , Ag/ NR Texas  
 A&M AgriLife Extension Service,  
 2200 7th Street 3rd Floor, Bay  
 City, TX 77414

*5 Hr. CEUs*

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Extension Programs serve people of all ages regardless of socioeconomic level, race, color, sex, religion, disability, or national origin. The Texas A&M University System, U. S. Department of Agriculture, and the County Commissioners Courts of Texas Cooperating. If you need any type of accommodation to participate in this program or have questions about the physical access provided, please contact Aaron Sumrall at the Matagorda County Extension Office at (979)245-4100 at least 2 weeks prior to the program or event.

## *2020 District 11 Texas Crop and Livestock Budgets*

### **Build Your Own Budgets:**

[Spreadsheet Budgets\\*](#) ([Spreadsheet Budget Help Video](#) – best viewed in full screen)

[Using The Spreadsheet Budgets](#) (help file)

[Machinery Cost Estimator](#) (calculate your machinery cost)

\*Caution: This file may not open in some browsers. If so, download the file to your computer when given the option by your browser, then open the file in Excel. If you still have trouble with the file try downloading this [zip file](#) and extracting the Excel file from it.

### **Forage Crops**

[Coastal Bermudagrass Hay and Grazing \(3 Cuttings\)](#)

[Coastal Bermudagrass Pasture](#)

[Sorghum Hay \(2 Cuttings\)](#)

### **Field Crops – Irrigated**

[Cotton – Genetically Modified Seed, Conv. Till-24 Row, Irrigated, 1250 lb. Yield Goal](#)

[Sorghum – Conventional Till-24 Row, Irrigated, 100 bu. Yield Goal](#)

[Sesame – Conventional Till-12 Row, Irrigated, 1100 lb. Yield Goal](#)

[Hard Red Spring Wheat, Irrigated, 60 bu. Yield Goal](#)

### **Field Crops – Lower Coast Dryland**

[Canola, Dryland, 1500 lb. Yield Goal](#)

[Cotton – Conventional Seed, Till-24 Row, Dryland, 800 lb. Yield Goal](#)

[Cotton – Genetically Modified Seed, Conv. Till-24 Row, Dryland, 800 lb. Yield Goal – Lower Coast](#)

[Sesame – Conventional Till-12 Row, Dryland, 800 lb. Yield Goal](#)

[Sorghum – Conventional Till-24 Row, Dryland, 72 bu. Yield Goal](#)

[Hard Red Spring Wheat, Dryland, 35 bu. Yield Goal](#)

### **Field Crops – Upper Coast Dryland**

[Corn – GMO Seed, Conventional Till-12 Row, Dryland, 100 bu. Yield Goal](#)

[Cotton – GMO Seed, Conv. Till-12 Row, Dryland, 900 lb. Yield Goal](#)

[Sorghum – Conventional Till-12 Row, Dryland, 90 bu. Yield Goal](#)

[Soybeans – GMO Seed, Conventional Till-12 Row, Dryland, 30 bu. Yield Goal](#)

[Soft Red Winter Wheat, 45 bu. Yield Goal](#)

### **Rice**

[Rice West of Houston, 1st Crop, Surface Water](#)

[Rice West of Houston, 2nd Crop, Surface Water](#)

### **Livestock**

[Cow-Calf Improved Pasture](#)

[Summer Stocker Calf Budget \(160 Days Grazing\)](#)

[Winter Stocker Calf Budget \(110 Says Grazing\)](#)

## *Texas Tech researchers double cotton yields*

By Jennifer Dorsett  
Field Editor—Texas Farm Bureau

A group of Texas Tech University (TTU) researchers genetically modified cotton plants to double fiber yields for cotton grown in semi-arid climates like those found on the Texas High Plains.

Hong Zhang, a TTU professor of Plant Molecular Biology and Plant Biotechnology, genetically modified a cotton variety with fiber yields 133 percent higher than that of wild-type (natural, typical form) cotton in West Texas dryland farm conditions during the first year of his current research project. Zhang noted it was a very dry year, but the following year, when conditions were wetter, the modified variety still outperformed the wild type by 81 percent. “Eighty percent is still huge,” he said. “It’s a dramatic improvement, but we can make a much bigger improvement.”

Two genes, AVP1 and OsSIZ1, were modified by the researchers for co-overexpression. The results were highly consistent and repeatable, according to Zhang. Because of the nature of the genetic modifications, even if the modified plant grew in an exceptionally wet year, the plants would still yield more fiber. There is potential for the results to be duplicated in other crops like wheat or corn. Zhang noted the two genes modified are present in every plant species. The modifications are applicable to farming conditions both abroad and at home, especially in the eight High Plains states served by the Ogallala Aquifer.

The [Ogallala](#), which stretches from South Dakota to the Texas Panhandle, supports about 20 percent of the nation’s wheat, corn, cotton and cattle production. But [water is being extracted](#) from the aquifer at a rate faster than it is being replenished, leading to a decades-long decline in aquifer levels and threatening area agricultural operations. “This is why our research is so important, because we can save water,” Zhang said. “Water is the top limiting resource in the agricultural industry.” He hopes to begin testing the results of his research in a larger-scale field trial, with a goal of adding sorghum and corn plants to the study.

Meanwhile, six of Zhang’s students are studying more than 20 different genetic combinations to find other modifications to improve plant hardiness and other desirable characteristics. “I am optimistic, because I think that some compilation of these genes that we’ve created will become applicable,” he said. “Texas Tech gave me this opportunity to do this research here on this campus. If we can do something, that is great. We are paying back to our community and our state. This is what we do—help our society, help human lives. I am very proud of our research here.”

Read more about the research in a new paper published in the [Plant Biotechnology Journal](#).



photo courtesy Texas Tech University



**Table 13. Jackson County RACE Trial, 2020**  
**Cooperator: Brent Batchelder**  
**Michael Hiller - Jackson County Extension Agent, Agriculture and Natural Resources**  
**Dale A. Mott, Ben McKnight - Texas A&M AgriLife Extension, College Station**

Variety	Yield (lbs/acre)	Turnout %	Micronaire	Length (inches)	Strength (g/tex)	Uniformity	Loan Value (¢/lbs)	Lint Value (\$/Ac) <sup>1</sup>
ST 4990 B3XF	1666	42.2	4.41	1.17	32.6	82.6	54.63	910
DG 3421 B3XF	1645	46.8	4.44	1.09	31.4	82.9	53.53	881
NG 4098 B3XF	1576	43.3	4.09	1.12	30.2	82.5	54.03	851
PHY 480 W3FE	1581	45.9	4.30	1.12	29.7	82.1	53.77	849
DP 1840 B3XF	1596	43.3	4.24	1.07	28.7	82.5	52.70	841
ST 5610 B3XF	1513	45.4	4.65	1.13	31.3	82.7	54.47	824
PHY 400 W3FE	1528	42.8	4.48	1.13	29.6	82.7	53.82	822
ST 4550 GLTP	1459	44.3	4.32	1.14	29.6	83.1	54.28	792
DP 1646 B2XF	1476	43.1	4.48	1.13	30.7	82.8	53.10	783
NG 4936 B3XF	1347	47.5	4.85	1.09	29.5	82.8	53.23	717
<b>Mean</b>	<b>1539</b>	<b>44.5</b>	<b>4.43</b>	<b>1.12</b>	<b>30.3</b>	<b>82.7</b>	<b>53.76</b>	<b>827</b>
P>F	0.0006	0.0057	0.1343	0.1805	0.1616	0.8736	0.3935	0.0019
LSD (P=,10)	94.59	2.249	NS	NS	NS	NS	NS	59.52
STD DEV	66.81	1.59	0.28	0.04	1.54	0.65	1.02	42.04
CV%	4.34	3.57	6.22	3.59	5.07	0.79	1.89	5.08

<sup>1</sup> Lint values were calculated using the 2020 Upland Cotton Loan Valuation Model from Cotton Incorporated.  
 DG= Dyna-Gro, DP=DeltaPine, FM=FiberMax, NG=NexGen, PHY=Phytogen, ST= Stoneville.

Plant date: 3-25-20

Harvest date: 8-1-20

Plant population: 40,000

Row Spacing: 38

Replications: 4

Fertilizer: 100 units N of Chicken Manure & 40 units N of liquid fertilizer.

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# UPPER GULF COAST *VIRTUAL* FEED GRAIN & COTTON CONFERENCE



# Jan 26 2021

**3.0 TDA CEUs**  
CCA CREDITS APPLIED FOR



**PREREGISTRATION REQUIRED BY JAN 25 via EVENTBRITE**

- 8:00 a.m.     **WELCOME**
- 8:30 a.m.     Bollworm Update - *David Kerns, Texas IPM Coordinator*
- 9:00 a.m.     Soybean Production on the Gulf Coast - *Dr. Ron Schnell, Extension Cropping Systems Specialist*
- 9:30 a.m.     Weed Management in Row Crops - *Dr. Josh McGinty, Extension Agronomist*
- 10:00 a.m.    2021 Texas Auxin Herbicide Training: Dicamba and Enlist Technologies - *Dr. Josh McGinty, Extension Weed Specialist*
- 11:00 a.m.    Insect Management in Soybeans - *Stephen Biles, County Extension Agent—IPM*
- 11:30 a.m.    Grain Market Update - *Mark Welch, Extension Grain Marketing Specialist*
- 12:00 p.m.    **LUNCH BREAK**
- 12:30 p.m.    Nematode Resistant Cotton Traits and Chemical Control of Nematodes in Cotton - *Jenny Dudak*
- 1:00 p.m.     RACE Trial Update: Current Cotton Research - *Ben McKnight, Extension Cotton Specialist*

## *Click Here to Register*

or call the Wharton County Extension Office at 979-532-3310

The members of Texas A&M AgriLife will provide equal opportunities in programs and activities, education, and employment to all persons regardless of race, color, sex, religion, national origin, age, disability, genetic information, veteran status, sexual orientation or gender identity and will strive to achieve full and equal employment opportunity throughout Texas A&M AgriLife. The Texas A&M University System, U.S. Department of Agriculture, and the County Commissioners Courts of Texas Cooperating Individuals with disabilities who require an auxiliary aid, service or accommodation in order to participate in any Extension activity, are encouraged to contact the County Extension Office for assistance 5 days prior to the activity.

# Generation Next: Our Turn to Ranch

## Online Ag Business Start-up School

The **Generation Next** curriculum targets new land-owners, those who are inheriting land, or those who are looking to start a new agricultural operation on an existing ranch. It is taught as an online school where participants will work towards developing a business plan with plenty of support from professionals who specialize in each field and topic.

**Course Includes: 12 online classes of expert instruction with a complete business plan by the end of the course, and a Generation Next t-shirt and certificate.**

#### Topics covered:

- How to start an agricultural business
- Understanding business taxes
- Insurance needs for your ranch
- Tracking your finances
- Evaluating your land resources
- How to set up grazing and wildlife management leases
- Basic ranch laws – fencing, water, etc.
- Land management techniques
- Alternative operations & direct marketing
- Setting goals with measurable objectives for success

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**NEXT ONLINE CLASS:  
JAN. 25—APRIL 18, 2021**

*The course will require approximately 2 hours of your time (at any time!) per week, for 12 weeks. You only need access to a computer with internet capabilities.*

**Registration Fee: \$250**

**Register at:**

[https://agrilifelearn.tamu.edu/  
product?catalog=ESSM-001](https://agrilifelearn.tamu.edu/product?catalog=ESSM-001)

For more information contact:

Dr. Megan Clayton

megan.clayton@ag.tamu.edu

361-265-9203

<https://generationnext.tamu.edu>

**Agri-News Trivia**

**Did you know?**

- Today's beef producers use 33% fewer cattle to produce the same amount of beef that they did in the 1970s.
- *About 11% of U.S. farmers are serving or have served in the military.*
- Texas is #1 in the nation in: Cattle, Cotton, Sheep and Goats, Wool and Mohair, Hay Production

**Private Applicators License Training**

If you plan on using a state limited use or state restricted use pesticide, such as Grazon P+D, 2 4-D, Weedmaster, etc., and need a license, the Texas A&M AgriLife Extension Service will be sponsoring a **Private Applicator Training at 8:00 AM on Thursday, February 4, 2021** at the Jackson County Extension Office. Books and study materials for the course need to be purchased ahead of time for \$50.00 at the Extension Office. The exam can be taken a location of your choice. If you complete the training portion and score a 70 or above on the examination, you will be eligible to apply for your Private Applicator License, which will allow you to purchase all state limited use and restricted use pesticides used in agriculture.

To reserve your spot at the training, contact the Jackson County Extension Office at (361) 782-3312.



**Real Learning for Real Life**



**Newsletter by E-Mail**

*Due to increased postage costs, we would like to make future newsletters and announcements available to you electronically. If you would like to receive future information by email send an email to [mrhiller@ag.tamu.edu](mailto:mrhiller@ag.tamu.edu). Benefits of having your newsletter sent through e-mail are: pictures and graphs will be in color, easy to store on your computer, no papers to mess with, click-able links to other internet sites, and sooner access.*

Mike Hiller, CEA-Ag/NR

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