

# Regulatory Services News

Vol. 53, No. 4

Feed - Fertilizer - Milk - Seed - Seed Testing - Soil Testing

Winter 2009

## Director's Digest

This year has brought many challenges to the feed, fertilizer, milk and seed industries, and producers across the state. The economical downturn has affected agricultural production and thus sales of many products supporting agriculture. Prices for inputs have changed drastically from 12 to 15 months ago. There seems to be more stabilization in pricing during the past two to three months. Hopefully, this will continue as agricultural producers will feel more comfortable again in purchasing products from our agribusiness outlets.

We at the Division have continued our inspection and sampling programs to reduce the possibility of low quality products being sold to Kentucky producers and citizens. Our inspectors have been busy visiting manufacturers and dealers to review items of cleanliness and housekeeping in addition to sampling the various products sold. We are seeking to have high quality feed, fertilizer and seed products maintained in a state of high quality. And during times of financial challenges to our consumers, we are challenged with keeping those "special product deals" or low quality products from reaching our producers and other consumers.

I will finish by mentioning that recent activities associated with US

*continued on page 2*

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College of Agriculture  
Division of Regulatory Services

FDA are bringing feed manufacturing and dealer locations under the same scrutiny as the human food industry. With recent regulation changes, food is now defined as any food or feed for animals or humans. Those producing feed will need to be more familiar with ingredients used in feed production, and will need to maintain clean environments for manufacturing, storing and displaying feeds.

*Bill Thom*  
*Director*

### A Change in Soil Test Fees

The Soil Testing Laboratories in Lexington and Princeton provide a vital service to crop producers and homeowners by analyzing soil samples and other materials for available nutrients and other chemical or physical factors. The Cooperative Extension Service is a valued partner in providing timely test results and recommendations for lime and fertilizer that strive to optimize the economic prosperity of clientele and support efficient management of crop nutrients.

A routine soil test currently costs \$4 per sample and includes water pH, buffer pH, P, K, Ca, Mg, and Zn. This cost has been in effect for at least 10 years. The cost of performing routine and optional tests has increased over this time. Also, we have experienced a 10% increase per year in sample numbers during the past three years due to the strong educational efforts of county agents. When compared to surrounding states, Kentucky has the lowest cost for routine tests by at least \$2 per sample.

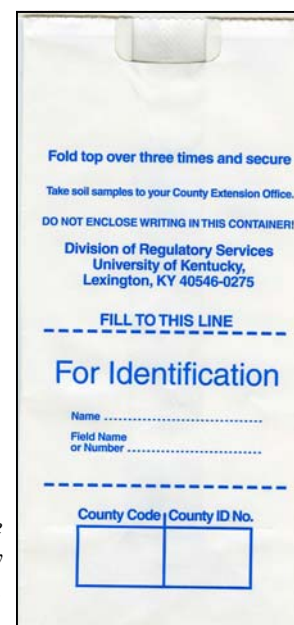
We will revise the cost for the routine soil test and several optional tests as listed below. Those tests not listed below will have costs remaining the same as the present cost. The new costs for the various tests will be effective after January 1, 2010.

*F. Sikora*

*Soil Testing Program*

Test	New Cost
Routine soil test	\$ 5
Organic matter	\$ 5
Soluble salts	\$ 4
Water holding capacity	\$ 4
Calcium carbonate equivalence	\$ 4
Heavy metals	\$ 21
Potential acidity	\$ 20
Animal waste	\$ 25
Triazine residue	\$ 30

*Soil sample bag, available  
 from your local County  
 Extension Office.*



## SURVEY OF COMMERCIAL VALUES OF FERTILIZER NUTRIENTS



Fertilizers routinely distributed in Kentucky  
Photo credit: S. Patton,  
UK Ag. Communications

Over the next few weeks you will receive or you may have already received a survey to determine the commercial values of fertilizer nutrients. Under the provisions of KRS 250.401, I am conducting a survey to determine the commercial values of the fertilizer nutrients for Calendar Year 2010. This survey is of utmost importance for the Division as well as the retail community of fertilizer sales. The values will be published and used in determining and assessing penalty payments if needed.

Due to the fluctuating prices over the past year it is important that we include as many surveys as possible. Our inspection staff will be asking if you have received and/or responded to this survey. You can give the survey to your respective inspector for inclusion in our determinations. Please note that we want the current retail value of fertilizers in dollars per ton. All information will, of course, be held in strict confidence.

Last year's values are located on our website below:

<http://www.rs.uky.edu/regulatory/fertilizer/index.php>

*S. McMurry*  
*Fertilizer Regulatory Program*

### **Fertilizer Registration for 2010 in Kentucky**

All Kentucky fertilizer registrations and licenses expire on December 31, 2009 and must be renewed to legally sell fertilizer in the state for 2010. Renewal notices to all current Kentucky registrants/licensees have been mailed. The renewals list all products registered in the state for 2009, all licenses approved for 2009, and instructions for completing the task.

Each company was mailed a current registration/licenses status in June 2009, so renewals will be an update from that report.

**BE ON THE LOOK-OUT FOR YOUR RENEWAL NOTICE.**

As always, if you have questions  
call: 859/257-2785,  
FAX: 859/257-9478, or  
email: [June.Crawford@uky.edu](mailto:June.Crawford@uky.edu).

## Renewal of Seed Registrations and Permits

It will soon be time for renewal of seed permits and registrations. This annual process begins toward the end of December with mailing of applications to permitted and registered seedsmen, seed dealers, and seed conditioners. The required applications are mailed to all those currently permitted or registered.

There are two registrations and two permits specified in the provisions of the Kentucky Seed Law. What each individual or business is required to obtain is based on the nature of their business. In many cases, multiple applications consisting of a combination of two or more permits or registrations are required.

Seed dealers that sell seed at retail in container sizes of 40 pounds or more are required to register as **Seed Dealers**. There are a number of locations that do sell seed in smaller container sizes and are not required to register as seed dealers. These locations are still subject to inspection and are inspected on a regular basis.

Locations that condition uncertified seed for distribution in Kentucky are required to register as **Non-Certified Seed Conditioners**. Those who condition only certified seed are registered as a part of the certification process.

Anyone who labels agricultural seed or agricultural seed mixtures is required to obtain a **Permit to Label Agricultural Seed**. Those who obtain this permit are also required to file quarterly re-

ports and pay fees based on the seed kind and container size of the product. Quarterly reporting forms are mailed to agricultural seed permit holders at the end of each quarter and are required to be filed within 45 days after the end of each quarter.

Anyone who labels vegetable seed, flower seed, or combination mulch, seed and fertilizer is required to obtain a **Permit to Label Vegetable Seed, Flower Seed, or Combination Mulch, Seed, and Fertilizer Products**. These products are not subject to quarterly reporting.

Fees for registrations and permits are \$25 each. Locations that are required to obtain both a labeling permit and a registration or both registrations only pay one \$25 fee for all. It is common for a location to be involved in conditioning seed, labeling seed and also selling seed at retail. All three applications are required, but only one \$25 fee is paid. A \$50 fee would only be required if both labeling permits are needed. The registration fees are waived if one or both permits are obtained.

These applications will be mailed to your location in December and are based on the applications that you currently have. A cover letter accompanying the application is included. The cover letter will specify in bold type the fee due for your location. Please complete those enclosed applications and return with the application fee stated in your cover letter. Please submit these by January 15, 2010. If you have questions about this process, please contact our office at 859-257-7363.

*D. Buckingham,  
Seed Regulatory Program*

### KSIA Winter Meeting

The Kentucky Seed Improvement Winter Meeting is tentatively scheduled for January 28-29, 2010 in Lexington. For more information about KSIA or the winter meeting, contact:

Kenny Hunter , KSIA Secretary/Manager  
phone: (859) 351-5325 or email: khunter.ksia@gmail.com

## Submitting Samples to the Seed Testing Lab

Several notes to consider when you submit a sample to the lab for testing:

Provide the seed kind, variety, lot number and any treatment information, also indicate all tests you want performed. We can fax or mail sample submission forms or the form can be downloaded from our website (<http://www.rs.uky.edu/service/seed/submittingsamples/submittalform.pdf>). One form should be completed and accompany each sample sent in for testing.

Our lab can provide sample envelopes free of charge, just call or email and request the number you need. (When using these, sample information is provided on the bag and the submission form is not necessary.) Or, you can use a bag, envelope or container of your own. Please note that thin paper bags rip and tear during shipping. Zip-top bags should be well-sealed.

When sending more than one sample, be sure each is clearly labeled and securely sealed to prevent contamination if the bags or containers open during shipping. It may be necessary to use packing peanuts or newspaper between samples to ensure samples fit tightly in the shipping container.

Don't leave samples on your dashboard or in a closed vehicle. The high temperatures in a closed car can easily kill seed. Once you have the sample ready, ship it as soon as possible. We accept all forms of delivery including drop-off, U.S. Postal Service, FedEx and UPS.

If you have any questions about submitting samples to the lab, please contact us by phone (859-257-2785) or email ([Cindy.Finneseth@uky.edu](mailto:Cindy.Finneseth@uky.edu)).

More details regarding submitting samples to the lab are available on our website at: [http://www.rs.uky.edu/service/seed/servicetesting/howto\\_submitsamples.php](http://www.rs.uky.edu/service/seed/servicetesting/howto_submitsamples.php).

**SEED TESTING SUBMITTAL FORM**

Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Seed Kind \_\_\_\_\_ Variety \_\_\_\_\_  
 Lot Number \_\_\_\_\_ Was seed harvested in past 3 months? YES NO  
 Is this seed treated? YES NO If yes, name of treatment: \_\_\_\_\_  
 Certified, Registered, Foundation (Circle if this lot is one of these)

Tests Wanted (Please circle):  
 Complete (Includes Purity, Germination, Noxious) Purity and Noxious Only  
 Germination Only Purity Only  
 Treated Germination (Razil/Thiam Treatment) Noxious Only  
 Seed Count Per Pound Tetrazolium  
 Moisture (for small grains, corn, soybeans) Accelerated Aging Vigor Test  
 Endophyte: Fungi Seeds  
 Other \_\_\_\_\_

Advance Report Wanted:  By Phone Number \_\_\_\_\_  By Fax Number \_\_\_\_\_  
 Email: \_\_\_\_\_

If you want a carbon copy to go to another person, list the name and address or email below:

**UK** Division of Regulatory Services  
 University of Kentucky— College of Agriculture

Sample Submission Form

**SEEDSMAN ACCOUNT NUMBER**

Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

(check if applicable)  
 Certified Variety \_\_\_\_\_  
 Registered Kind \_\_\_\_\_  
 Foundation Lot Number \_\_\_\_\_  
 Treated Treatment Name \_\_\_\_\_  
 Year Grown \_\_\_\_\_ Other \_\_\_\_\_

Tests:  
 Complete (Purity, Moist., etc.) \_\_\_\_\_ Accelerated Aging \_\_\_\_\_   
 Purity and Noxious Only \_\_\_\_\_ Cold test \_\_\_\_\_   
 Germination Only \_\_\_\_\_ Endophyte - Seeds \_\_\_\_\_   
 Noxious Only \_\_\_\_\_ Endophyte - Plants \_\_\_\_\_   
 Seed Count per Pound \_\_\_\_\_ (2 samples to be left for Count Only)  
 Moisture \_\_\_\_\_ Treated Seed Germ \_\_\_\_\_   
 Other \_\_\_\_\_ (if needed, specify below)

Advance Report of Analysis wanted:  
 By Phone  Phone Number \_\_\_\_\_  
 By Fax  FAX Number \_\_\_\_\_  
 By Email  Email Address \_\_\_\_\_

If you would like a carbon copy to go to another person, list name and address here:  
 \_\_\_\_\_  
 \_\_\_\_\_

Seed Lab Sample Envelope



Ripped sample bags (left) and resulting seed mixture in shipping container (right).  
 Photo credits: Kent von Lancken



## Online and Electronic Delivery of Seed Test Results

Did you know you can access your seed laboratory results at any time, from nearly anywhere? The Seed Testing Program has an online portal that you can use to see preliminary as well as final laboratory test results. The web address is:

[www.pureharvest.com/portal/authorize/index.php?d=keyseed](http://www.pureharvest.com/portal/authorize/index.php?d=keyseed).

You can also reach this secure portal from a link on our website under the *View Service Results* link on side menu of the Seed Testing page ([www.rs.uky.edu/departments/seed/service.php](http://www.rs.uky.edu/departments/seed/service.php)). Our web service also allows you to check your sample results in near real time since we enter our results into the sample database as we finish each analysis.

Once your online access is set up, you can search or filter samples on many characteristics like lot number, seed kind, sample number, completed samples or samples in progress. You can also download sample information into a spreadsheet. These features are available at any time of the day from any computer with web access.

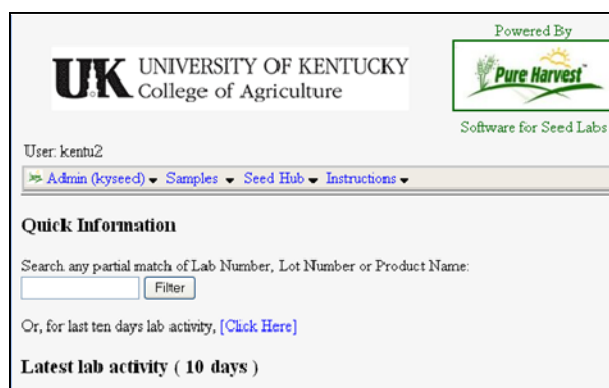
We also now offer an email service where you can receive final reports as pdf files as well as a “lab scheduler”. This status report goes out electronically at the end of the day and lists your samples at our lab noting the current details of each seed lot. At your request, we can also send an individual lab report to a specified individual’s email (like a carbon copy) or have reports routinely sent to multiple email addresses.

Because of security features, online access and email delivery must be established through our office. If you would like to set up our complimentary online sample access or email sample reporting, please choose a username and password and call (859-257-2785) or email (Cindy.Finneseth@uky.edu or kmnich4@uky.edu).

*C. Finneseth  
Seed Testing Program*



*Initial login screen where user name and password are entered. These are selected by the “owner” of the sample.*



*From this screen a specific sample can be found or all samples can be reviewed.*

Kentucky State Seed Program				
Test Detail				
Lot: TESTING 1 Lab number: T06-0001				
Received: 2006-10-16 Printed: 2006-10-16				
Crop: Bluegrass, Kentucky <i>Poa pratensis</i>				
Variety Kenblue				
Product: Bluegrass, Kentucky				
Noxious Exam: Kentucky				
<a href="#">[Pdf-10/16/06]</a> <a href="#">[ Send Email ]</a>				
<small>This information is an informal result, and while believed to be reliable, is not guaranteed. The signed paper report is the only official result of the tests on your sample.</small>				
Type	Component	Test Date	Test	Result
	Bluegrass, Kentucky	2006-10-16	Germ_day_2	98
	Bluegrass, Kentucky	2006-10-16	Purity	99.92
	Bluegrass, Kentucky	2006-10-16	Germination	98
		2006-10-16	Other crop seed	0.02
		2006-10-16	Weed seed	0.02
		2006-10-16	Inert matter	0.04

*This screen provides individual sample details including preliminary purity results and germination counts as well as other test results.*

## Association of American Feed Control Officials 100<sup>th</sup> Annual Convention

The Association of American Feed Control Officials (AAFCO) met to discuss business and planning for the upcoming year and to celebrate 100 years. The Presidential Address was given by Andy Gray, Montana Department of Agriculture. He discussed events and accomplishments over the previous 12 months relating to feed and AAFCO as well as cooperation with FDA. Two accomplishments for AAFCO were to finalize and approve both the Non-Commercial Feed Model Bill and the Model GMP Regulations for Feed and Feed Ingredients. Also, the AAFCO 2009 Official Publication was updated with a new design.

At the opening session there were FDA and other invited speakers who reviewed programs, new protocols and requirements, and ideas for the future. David W.K. Acheson, M.D., FDA's Associate Commissioner for Food (retired July 31, 2009), presented "Food Safety Challenges – Time for a Modernization in Approach". Commissioner Acheson suggested food safety modernization to reflect current challenges. Dr. Bernadette Dunham, FDA's Director of the Center of Veterinary Medicine, CVM, discussed "AAFCO and CVM: A Partnership for Feed Safety". Dr. Adela Ramos of USDA, Senior Advisor to the Undersecretary for Food Safety, discussed "Food and Feed Safety". A presentation by Joseph Corby, Executive Director of AFDO (Association of Food and Drug Officials), "Integrating the

Food Safety System – An AFDO Vision", highlighted the need for cooperation between AAFCO, all state regulatory programs dealing with feed and food, and FDA with the vision to have one food/feed safety system. Roberta F. Wagner, Director, Office of Compliance, FDA's Center for Food Safety and Applied Nutrition, presented "FDA/CFSAN's Current Approach to Risk Based Domestic Inspection Planning". Director Wagner discussed that FDA's Center for Food Safety and Applied Nutrition currently utilizes a mathematical algorithm to assign risk scores to food manufacturers in its official establishment inventory based on inherent risk (as determined through the use of food borne outbreak, recall and serious adverse event reporting data) and facility compliance risk based on classification of inspections of a given facility over a five year period. All presentations provided insight and ideas for AAFCO.

Several presentations by past Presidents reviewed the history of AAFCO since the beginning in 1909. Presentations captured highlights of different aspects of the Association during the last 100 years: early efforts dealing with a uniform feed bill; ingredient definitions; fees; weights and measures; lab methods; inspections; laboratory check sample quality program; mineral definitions; ingredient investigators; working with FDA; war time impacts; label requirements for feeds containing drug ingredients; documenting lab methods; cooperation with AOAC International and the Agriculture Microscopy Asso-

ciation; work with the pet food industry (products, food terms, labels, etc.); efforts to insure safety and efficacy of drugs; new by-laws; a board of directors replaced the Executive Committee; annual feed administrators seminar; revised Uniform Feed Bill; tolerances for drug analysis; annual symposia for feed chemists; state control officials commissioned by FDA for carrying out certain responsibilities; Good Manufacturing Practices; customer-formula feed regulation; guidelines for naming feed ingredients; nutrient profiles for use pet foods; feed inspectors manual; a feed chemist training workshop; Quality Assurance/Quality Control Guidelines for State Feed Laboratories; an internet surf day was conducted for feed products; licensing of feed consultants; Model Feed Safety Program Development Guide; BSE task force was established, an AOAC Agriculture Materials Committee formed for methods development, inspector training seminars were developed and presented, a Memorandum of Understanding between AAFCO and FDA to facilitate ingredient definition development; AAFCO testified before the U.S. Senate Committee on Appropriations regarding the pet food recall due to melamine contamination.

This is a list of topics that were presented concerning AAFCO over the last century. There were many other highlights as well covering this time period. Also, a special Centennial Publication

*continued on pg. 12*

## Top Dairy Industry Quality Awards Presented at the Kentucky State Fair

Over 180 people attended the 36<sup>th</sup> Annual Dairy Recognition Banquet held at the Kentucky State Fair on August 21, 2009. Each year, Kentucky's top processors, producers and allied industry friends are recognized with honors at this event. The Quality Awards for our state's top quality producer and milk hauler are always popular with the audience.

### Top Quality Dairy Producer

#### Floyd Roy Family Farm, Dunnville, KY

The quality producer award is sponsored by the Dairy Products Association of Kentucky. The 2009 Grand Champion Quality Dairy Producer is Floyd Roy from Dunnville in Adair County. Floyd and his wife Elizabeth began farming in 1961 and now they cooperatively operate their farm with their sons Dale and Dwight. The Roy family members have quietly built their great reputation by consistently producing high quality milk on their farm for nearly 50 years. Congratulations to the Roy's on their well deserved recognition as the 2009 Grand Champion Quality Dairy Producer.

### Top Quality Milk Hauler Award

#### Paul Phillips, Willisburg, KY

The Kentucky Quality Milk Hauler Award is open to any hauler who picks up Kentucky dairy producers' milk. It recognizes our state's hauler who best exemplifies quality milk hauling procedures and who serves as an exceptional representative of Kentucky's dairy industry. The 2009 Kentucky Quality Milk Hauler Award recipient is Paul Phillips from Willisburg, Kentucky. Paul has been hauling milk for over 10 years in central Kentucky for Ralph Lewis Trucking and he enjoys an excellent reputation in Kentucky's dairy industry. Producers, processors and other haulers always speak very highly of Paul and he is readily recognized as a person who represents Kentucky's dairy industry well.



The Annual Dairy Recognition Banquet is typically held at the fairgrounds on the first Friday evening of the Kentucky State Fair. It has become quite an event for our state's dairy industry. Make plans now to attend the 2010 banquet and be sure to check out the award recipients below who were also recognized at this year's event.

*C. Thompson,  
Milk Regulatory Program*

#### Outstanding Overall Dairy Products Exhibitor

Purity Dairy

Nashville, TN

#### Outstanding Kentucky Dairy Products Exhibitor & Highest Percentage Gold Entries

Bluegrass Dairy and Foods

Glasgow, KY

#### Culinary Sweepstakes Dairy Award

Erica Todesco

Louisville, KY

#### Kentucky Dairy Promotion Award

Roger Thomas

Smiths Grove, KY



**Kentucky Dairy Quality Award Finalists**

James Roell	Fleming County
Hord Dairy	Lewis County

**Kentucky Dairy Production Award “All Herds Champion”**

Branstetter Dairy Farm	Metcalfe County
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**Top Herd Production “Mixed Herd Champion”**

University of Kentucky Coldstream Farm	Fayette County
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**Proficient Dairy Producer Awards**

David Crocker Family Farm	Logan County
Robey Dairy	Logan County
Eddie Klingenfus	Shelby County

**District Production Awards**

Pennyrile Dairy	Christian County
Robey Dairy	Logan County
Crist Dairy	Barren County
Rocky Run Farm	Green County
Roger Corbin	Taylor County
Guffey Farms	Clinton County
Nathan Horst	Lincoln County
University of Kentucky Coldstream Farm	Fayette County
Rouse Farms	Mason County
Edward Moore	Campbell County
Tri-Mast Dairy	Marion County
Longview Farms	Grayson County

**Milk Safety Branch Public and Community Service Awards**

Bluegrass Dairy and Foods	Glasgow, KY
Flav-O-Rich Dairy	London, KY
Louis Trauth Dairy	Newport, KY
Southern Belle Dairy	Somerset, KY
Turner Dairy	Fulton, KY
Winchester Farms Dairy	Winchester, KY

**Milk Safety Branch Outstanding Dairy Producer Awards**

Darrell Carlton	Lincoln County
Eddie Gibson	Kenton County
Jim Sidebottom	Green County

## Germination and Vigor of Soybeans 2007-2009

Growing conditions as well as handling and processing influence soybean seed quality. The wet summer and fall this year has influenced the quality of soybeans harvested across the state and what will be available for planting next season. The average germination of all KY soybean seed lots (168 samples) tested this season was only 75%. The average standard germination of soybeans was much higher in 2008 (83%) and 2007 (88%). Because environmental conditions during the growing season were similar in other areas of the U.S., use caution when purchasing and planting soybeans next year. Germination may be acceptable (>85%), but seed lot vigor may be quite low.



For the last two years, we have collaborated on a soybean seed quality project with researchers from the University of Arkansas, where we conduct a standard germination test and an accelerated aging (AA) test in our lab. The standard germination test is conducted under ideal lab conditions (about 77° F and ample moisture provided), but the AA test (about 100°F and 100% humidity for 3 days) stresses seeds before germination. When planting conditions are favorable, standard germination values and field emergence are similar, however, field conditions at planting and soon thereafter are seldom ideal. This is why vigor tests are a great tool. The AA test gives additional information about seed quality (primarily vigor) and can predict performance under less than ideal conditions.

In 2009, seed lots from both production locations generally performed well in the standard germination test (KY=80%, AR=82%; Tables 1 and 2). More than half (62%) of the Kentucky samples and 73% of the Arkansas samples had a germination results of 80% or better. However, many seed lots produced low AA



*Soybean seeds after AA treatment, ready for planting and germination testing.*

results, with an average AA of 62% (KY) and 44% (AR). Less than half (42%) the samples from KY and only 14% of the AR samples exceeded 80% in the AA test.

Seed lots with a high standard germination and high AA result usually perform well under a wide range of field conditions, including less than ideal temperature or moisture at or soon after planting. Seed lots with acceptable standard germination results and marginal to low AA results should be used cautiously and not planted when field conditions (especially temperature and moisture) may be limiting. Samples with low to marginal standard germination and low AA results should not be offered for sale.

Germination	Vigor	Expected Performance Field Conditions		
		Ideal	Adequate	Stressful
↑	↑	√	√	~
↑	↓	√	~	×
↓	↓	~	×	×

Vigor results are not required or even commonly found on seed tags, however, many seed companies in Kentucky routinely use standard germination and AA tests to determine how they manage, label and sell seed. Our firms are interested in grower success and strive to accurately label their products. Seed should always be purchased from companies registered or permitted to sell seed in Kentucky. This ensures access for our seed regulatory program for inspections and monitoring.

Seed is often shipped into Kentucky, so the quality of all seed lots should be critically evaluated prior to purchase. Standard germination is required on the label, but vigor information is usually not listed. For \$16.00, our laboratory can conduct a standard germination test (\$7) and an AA test (\$9) on soybean seed. Both tests can be completed in about 10 days; however, depending on lab activities, more time may be necessary.

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Table 1. Standard germination (SG) and accelerated aging (AA) of soybean samples with a Kentucky origin, 2007-2009.

Year tested	2007		2008		2009	
Number of samples compared	47		35		29	
	<b>SG</b>	<b>AA</b>	<b>SG</b>	<b>AA</b>	<b>SG</b>	<b>AA</b>
Average	88	78	84	71	80	62
Range	46-98	35-97	3-98	0-98	28-98	0-98
Distribution	actual number of samples in category (% of total)					
<60%	2 (4%)	7 (15%)	2 (6%)	7 (20%)	4 (14%)	12 (41%)
60-79%	6 (13%)	13 (28%)	6 (17%)	10 (29%)	7 (24%)	5 (17%)
80-89%	12 (26%)	16 (34%)	7 (20%)	6 (17%)	6 (21%)	5 (17%)
>90%	27 (57%)	11 (23%)	19 (54%)	11 (31%)	12 (41%)	7 (25%)
Average germination (total # tested)	88% (121)		83% (206)		75% (168)	

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Soybeans should not be planted until conditions favor germination. Also, continue to ensure plant health with appropriate nutrition and pest control programs. For more information about soybean production in Kentucky, visit the UK grain crops webpage (<http://www.uky.edu/Ag/GrainCrops/soybean.htm>) or contact your local county Extension office. For more information about seed vigor testing or to have a vigor test conducted on a seed lot, contact the Seed Testing Program (Cindy.Finneseth@uky.edu or 859-257-2785).

*C. Finneseth  
Seed Testing Program*

Table 2. Standard germination (SG) and accelerated aging (AA) of soybean samples with an Arkansas origin, 2008-2009.

Year tested	2008		2009	
Number of samples compared	99		85	
	<b>SG</b>	<b>AA</b>	<b>SG</b>	<b>AA</b>
Average	84	47	82	44
Range	22-97	0-86	4-98	0-93
Distribution	actual number of samples (% of total)			
<60%	4 (4%)	61 (61%)	9 (11%)	50 (59%)
60-79%	19 (19%)	28 (28%)	13 (15%)	23 (27%)
80-89%	42 (42%)	10 (10%)	20 (24%)	8 (9%)
>90%	34 (34%)	-	43 (49%)	4 (5%)

### Winter Break Announcement

The Division of Regulatory Services will close for winter break on Friday, December 25, 2009 and will reopen Monday, January 4, 2010.

The Seed Testing Laboratory will be operating during the break. To arrange sample drop-off or to contact Seed Lab personnel, call (859) 257-2785, ext. 256. The seed program can also be reached by email at [Cindy.Finneseth@uky.edu](mailto:Cindy.Finneseth@uky.edu).

## AAFCO

(continued from pg. 7)

2009 presented to each attendee provided a timeline, past photos of meetings, photos of past Presidents, congratulation letters, advertisements; snapshot brief histories, and other significant memorabilia about AAFCO.

Meeting attendees gathered at the steps of the Capitol for a photo session in the evening to document this historic convention. At an evening gathering, association historic photos were shown. During the awards program, photos were taken of all the past AAFCO Presidents and all AAFCO officers in attendance. Several past Presidents, back to 1978, attended the meeting and were recognized as special guests. It was inspiring to be among so many people that dedicated themselves and their careers to help in feeding our nation.

The importance of feed and food safety was highlighted in several ways at the meeting. Regular committee meetings were held to continue ongoing business. These committees include: Feed Contaminants, Collaborative Check Sample Program, Feed Labeling, Communications, E-Commerce, Feed Manufacturing, Lab Methods and Services, Pet Food, Inspector Certification, Model Bill & Regulations, Ingredient Definitions, States-Industry Relations, Bio-Fuels Co-Products, Long Range Planning and Inspection and Sampling.

These committees and the sub-committees provide comprehensive coverage for feed regulation.

FDA was well represented at this meeting with over 25 in attendance. Their presentations and contributions in committees continue to be very valuable input for AAFCO. Industry was well represented and the Presidents of AFIA and NGFA both gave presentations regarding the feed industry and how their organizations are striving to provide quality products that are safe in the world marketplace that is changing.

In summary, the 100<sup>th</sup> Annual Convention of AAFCO was successful and provided a time to reflect on accomplishments, to reflect on the importance of feed and food safety and nutrition, and to prepare for the challenges ahead. The importance of the states, universities, industry, FDA, producers, and other feed constituents working together was highlighted at this meeting. Regulatory Services continues to work effectively to provide protection and support for the producers and industry in Kentucky and depends on AAFCO for leadership and guidance on important issues dealing with feed.

*M. Bryant*  
*Feed/Fertilizer Lab Coordinator*

### **Electronic Delivery Regulatory Services News**

To reduce printing, paper and postage costs, Regulatory Services News is available for electronic delivery to your email address.

To receive the quarterly newsletter in electronic format, please visit the Division's website at [www.rs.uky.edu](http://www.rs.uky.edu), navigate to the Newsletter page and submit your contact information.

Newsletter editions dating to 2001 are available online.

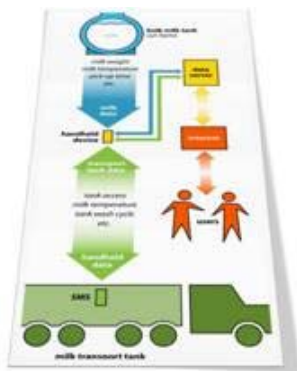
## Thompson Addresses Congressional Staffers on Capitol Hill

Milk Program Coordinator Chris Thompson served as the Distinguished Speaker at the National Coalition for Food and Agricultural Research (National C-FAR) “Lunch~N~Learn” Hill Seminar on September 14, 2009. He was the invited guest of the Institute of Food Technologists, a non-profit scientific society representing over 22,000 members working in food science, food technology and related professions in industry, academia and government. Chris was asked to address the topic of food traceability. His presentation focused on the Milk Transport Security and Traceability System currently being developed in the College of Agriculture at the University of Kentucky through a multidisciplinary team involving Biosystems and Agricultural Engineering and Regulatory Services.

Chris provided an overview of the milk transportation project to over 70 Congressional staffers and government officials at the seminar. National C-FAR’s Hill Seminar Series, now entering its fifth

year, regularly presents leading-edge researchers working to provide answers to pressing issues confronting the public and Congress. The Hill Seminar Series and Success Profiles help demonstrate the value of public investment in food and agricultural research—investment that returns 45% per year on average. National C-FAR is a nonprofit, nonpartisan, consensus-based, and customer-led coalition that brings food, agriculture, nutrition, conservation, and natural resource stakeholders together with the food and agriculture research and extension community, serving as a forum and a unified voice in support of sustaining and increasing public investment at the national level in food and agricultural research, extension, and education.

More information about the seminar series can be found at [http://www.ncfar.org/Hill\\_Seminar\\_Series.asp](http://www.ncfar.org/Hill_Seminar_Series.asp). Additional information on the milk transportation project can be found online at [www.rs.uky.edu/milktransport](http://www.rs.uky.edu/milktransport).



*Bulk Milk Transport System Schematic*



*Thompson at the National Coalition for Food and Agricultural Research Hill Seminar.*

## Employee News

### Soil Test Laboratory Welcomes Two Employees Paul Wilson and Colleen Steele

The Soil Laboratory in Lexington has recently experienced two vacant positions with Chip Zimmer accepting a position with the Division of Water in Frankfort and Kristen Hansen resigning to stay home with her baby. We welcome Paul Wilson and Colleen Steele who will now fill these positions.

Paul has a degree in Environmental Sciences and has worked for the Feed and Fertilizer programs in the Division for several years. Paul brings a strong farming background to the laboratory and he has worked as a volunteer helping people rebuild after hurricane Katrina. This knowledge of farm life and a dedication to helping others make Paul an excellent choice to join the soil testing team.

Colleen comes to us with many years of experience from the Plant and Soil Sciences department in the College of Agriculture at UK. She has excellent organizational and communication skills that have aided field research in soil fertility. She is looking forward to a change in her work assignments by performing laboratory work that aids Kentucky agribusiness and soil fertility research.

We welcome Paul and Colleen to the Soil Test Laboratory and look forward to them working with us to serve the people of Kentucky.

*D. Reid and F. Sikora  
Soil Testing Program, Lexington*



*Paul Wilson  
Photo credit: S. Patton,  
UK Ag. Communications*



*Colleen Steele*

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### Inspection Program Coordinator—Jim True



*Jim True, Inspection Program*

Jim True is originally from Owen County, Kentucky where his family farmed. He attended the University of Kentucky where he received his B.S. in Agronomy in 1979 and his M.S. in Soil Science in 1981.

After graduation, he worked in Henderson, KY at the Agrico Retail Farm Center where his responsibilities included the soil testing program and fertilizer sales. Jim spent the next 17 years in the seed business as a District Sales Manager, starting in Ohio then moving to Evansville, Indiana and working in Southwest Indiana and Western Kentucky. During this time he worked for Northrup King, DeKalb, Crows, and L.G. Seeds. For the past six years Jim has worked for Purdue University as an Extension Educator in Ag. and Natural Resources in Gibson County, Indiana.

Jim is married to Susan and has 3 children: Laura 21, Logan 19, and Hannah, 16. Jim is a loyal UK fan and has season football tickets and goes to basketball games when possible. He also enjoys golf, tennis, and hunting. We welcome Jim as the new coordinator of the Division's inspection program, with oversight of the field inspection staff engaged in the feed, fertilizer, milk and seed sampling and monitoring activities across the state.

# Announcements

## Upcoming Events

**KY Fruit and Vegetable Conference and Trade Show—Jan. 4-5**  
Embassy Suites Hotel, Lexington, KY  
John Strang, 859-257-5685.

**KY Landscape Industries Winter Conf./Horticultural Expo.—Jan. 11-13**  
Kentucky Expo Center (North Wing), Louisville, KY  
<http://www.knla.org/>

**KY Small Ruminant Grazing Conference—Jan. 12**  
Fayette County Extension Office, Lexington, KY  
<http://www.uky.edu/Ag/Forage/>

**Forages at KCA—Jan. 15**  
Role and Importance of Clovers in Kentucky  
Lexington, KY  
<http://www.uky.edu/Ag/Forage/>

**Kentucky Commodity Conference—Jan. 22**  
University Plaza Hotel, Bowling Green, KY  
[http://www.kycorn.org/news\\_events/kcc.htm](http://www.kycorn.org/news_events/kcc.htm)

**Ag Expo—Jan. 27**  
Hines Center, Owensboro, KY

**Kentucky Seed Improvement Annual Meeting—Jan. 28-29**  
Lexington, KY  
[khunter.ksia@gmail.com](mailto:khunter.ksia@gmail.com)

**National Farm Machinery Show—Feb. 10-13**  
Kentucky Exposition Center, Louisville, KY  
<http://www.farmmachineryshow.org/>

**Turf and Landscape Short Course—Feb. 15-19**  
Louisville, KY  
<http://www.uky.edu/Ag/ukturf/>

**Kentucky Alfalfa Conference—Feb. 25**  
Cave City Convention Center, Cave City, KY  
<http://www.uky.edu/Ag/Forage/>

**UK's Turf Research Field Day—July 8**  
Lexington, Kentucky  
<http://www.uky.edu/Ag/ukturf/>

### Current Job Openings:

Search the UK webpage for current positions at the Division of Regulatory Services: <http://www.uky.edu/HR/UKjobs/>.

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### UK Goes Tobacco-free November 19

On November 19, UK will join more than 300 other U.S. colleges and universities with tobacco-free or smoke-free policies for the entire campus, indoors and out, applying to all campus grounds and parking areas. This policy applies to all students, employees and visitors on campus.

Learn more about the University of Kentucky Tobacco-Free Policy: <http://www.uky.edu/TobaccoFree>.

### College of Agriculture H1N1 Influenza (Swine Flu) Resources

The University of Kentucky College of Agriculture maintains a Swine Flu resource page. It is located at: <http://www.ca.uky.edu/flu.php>.

**Regulatory Services News** is published quarterly for the feed, fertilizer, milk and seed regulatory programs and the seed and soil service testing programs of the Division of Regulatory Services. It is provided free to persons interested in these programs. For subscriptions or address changes, contact Cindy Finneseth, Editor, either by email at [Cindy.Finneseth@uky.edu](mailto:Cindy.Finneseth@uky.edu) or by telephone at (859) 257-2785. You can also request electronic delivery and access past issues of Regulatory Services News on the Internet at <http://www.rs.uky.edu>.

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