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# AGRiVIEW

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# Ag Leaders From Across the Nation Convene in Burlington to Advance Ag Literacy

*By Alison Kosakowski, VAAFM*

The National Association of State Departments of Agriculture (NASDA) held its annual meeting September 10-13th at the Hilton Burlington. Vermont's Agency of Agriculture was proud to host the organization's annual gathering.

NASDA is a nonpartisan, nonprofit association which represents the elected and appointed commissioners, secretaries, and directors of the departments of agriculture in all fifty states and four U.S. territories.

Over the course of four days, more than 350 attendees participated in various aspects of the conference. All fifty states and US territories were represented, including 44 State Agriculture Secretaries and Commissioners.

*Ag Secretaries and Commisioners from across the nation convened on the shores of Lake Champlain for the 2014 NASDA Annual Conference.*

Vermont's Secretary of Agriculture, Food, and Markets, Chuck Ross, served as NASDA's president over the past year. His term as president concluded at the conference. Under Ross's direction, the theme of this year's annual conference was "Ag Literacy."

"We are in the midst of a pivotal period for American Agriculture," Ross said. "Culturally, Americans are growing ever more interested in food and fiber. And yet, less than 2% of the population makes a living farming or ranching. "

"Given this divide, the opportunity for misunderstanding is immense," he continued. "As agricultural leaders, it is our role to bridge this gap, to set aside differences, and to seek out common ground. We must work together to create a culture of what I like to refer to as 'Ag Literacy,' an appreciation and understanding of where food and fiber comes from, and how farming and ranching work."

Dr. Barbara Glenn, the newly appointed CEO of NASDA, will use this theme to drive the legislative and

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## The View from 116 State Street

This past month, the Vermont Agency of Agriculture hosted the 2014 NASDA Annual Conference. It was an enormous logistical effort that would not have been possible without the outstanding teamwork and dedication of our Agency staff.

As and eighth generation Vermonter, and the out-going president of NASDA, it was an honor and a privilege to convene Ag leaders from across the country in our home state.

The theme of our conference was "Ag Literacy," and I truly believe we created a forum which got to the heart of many key issues, enabling important dialogue and creating deeper understanding.

Vermont is an ideal place to facilitate these conversations. I am proud of the work are doing to create a more sustainable, equitable food system, supported by our Working Landscape. Our guests left Vermont with a deeper understanding of how community-based agriculture works.

I'd like to send a personal note of thanks to all the farmers and producers who opened their farms to tours, donated products for our guests to sample, and demonstrated the very best of what Vermont agriculture has to offer. You made us all proud.

As I look back on the conference, I feel confident we advanced our Ag Literacy Mission. I am very proud to call Vermont home, and even more proud of Vermont Agriculture. Countless conference attendees complimented the great work we are doing, and I made it very clear that although I serve as the Ag Secretary for the state, it is our farmers who truly deserve the thanks and praise.

### NASDA

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regulatory efforts of NASDA in the coming year.

"NASDA members are not only the chief regulators of agriculture, but are more importantly the chief advocates for agriculture in the states. NASDA will continue this theme of agriculture literacy as we drive the development of informed Ag policy at the federal level," said Glenn.

The conference began with an Opening Plenary Session, titled "Creating a Culture of Ag Literacy." Secretary Ross moderated a discussion featuring the following food system leaders:

- Charlie Arnot, CEO, The Center for Food Integrity
- Gary Hirshberg, Co-Chair, AGree
- Jim Moseley, Co-Chair, AGree
- Jean Richardson, Chair, National Organic Standards Board

The panelists discussed the ways in which industry leaders can work together to build a culture of Ag Literacy in our country. They emphasized the importance of transcending the traditional divisions in agriculture and finding common ground.

In addition to an agenda full of policy discussions, guests participated in special events including a Lake Champlain dinner cruise, a reception at the Boathouse on the waterfront, and an evening at Shelburne Farms that highlighted the integral role Farm-to-School programming plays in Vermont schools. Each event featured a wide variety of locally grown and produced Vermont foods and specialty products.

The 2014 NASDA conference culminated Saturday afternoon with tours of several Burlington area farms and institutions spotlighting the traditions, the diversity, and the innovation at work in Vermont's agricultural sector. Conference guests had the opportunity to choose from three themed tours highlighting six different Vermont farms and institutions, including:

#### Tour #1: Vermont's Agricultural Heritage: Milk & Maple

Vermont has a proud history of dairy and maple production.

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### *Editor's Note*

September was a very busy month here at the Agency of Ag as we ramped up for the NASDA conference. I found myself working many long days, and also nights, to get ready. I enjoyed the conference immensely, but nothing compared to returning home to the farm afterward, soaking up the September sun, visiting with the cows and chickens, and inspecting the pumpkin patch to assess what progress was made while I was away.

Like many of my colleagues at the Agency of Ag, I live on a working farm. My husband is a sixth-generation dairy farmer, and we live on the family farm in Richmond. After many days discussing policy and the "future of American agriculture" at NASDA, it was refreshing to return home and experience agriculture-in-action. It can be easy to get swept up in theory and debate, but getting tired and dirty during farm chores keeps me, and many of my colleagues, grounded in the realities of farming.

*— Alison Kosakowski*
*Follow VAAFM on Twitter @VTAgencyof Ag*
*and follow me @VTFarmGirl*

# Heating Your Home – Get What You Pay For!

*By Henry J. Marckres, Consumer Protection Chief, VAAFMM*

With the nights getting colder, most of our thoughts turn to the winter ahead and the cost of staying warm. Whether you use fuel oil, kerosene, propane or firewood, there are certain things you should look for when purchasing your heating fuel. There are specific regulations to protect you and make sure that the fuels you buy "measure up".

Any delivery of heating fuel requires an invoice be left, unless an agreement has been reached previously to invoice at a later date. When you receive a delivery of fuel oil, kerosene or propane, the invoice should have; the name and address of the dealer, name and address of the customer, date of delivery, the type of fuel delivered, price per gallon and the gallons delivered. Propane deliveries should also state that the volume delivered was adjusted for temperature. The gallons delivered must be printed by the meter register mounted on the delivery vehicle. Consumer Protection specialists annually test these meters and registers to assure accuracy.

Firewood deliveries must also provide the customer with an invoice with the dealers name and address, customers name and address, date of delivery, number of cords delivered, price per cord and total price, and the type of wood (maple, etc.). Firewood must be sold by the cord, and terms such as "rack, facecord or truckload" are illegal. A cord of firewood must equal 128 cubic feet. When you purchase firewood, pile it as soon as possible to determine if you have received the amount you paid for.

If you have any questions on purchases of heating fuel, or if you feel that you have not received what you have paid for, contact the Consumer Protection Section of the Vermont Agency of Agriculture, Food and Markets at 802-828-2426.

## NASDA

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Together, these two industries form the backbone of Vermont agriculture. Vermont leads the nation in syrup production, producing more than 48% of the nation's syrup (Maine and New Hampshire are the second largest producers, contributing roughly 17% of the national total, each). Dairy is the largest segment of Vermont agriculture, representing about 80% of our Ag economy. This tour explored how new innovation is advancing these industries. The first tour stop was Rowell's Green Mountain dairy in Sheldon, where the manure is transformed into biogas with the help of an aerobic digester. The second tour stop was the Brannon Family Maple Orchards, a sixth-generation maple operation, where technology and tradition combine to serve the increasing consumer demand for maple products.

### Tour #2: Opportunities and Challenges of the 21st Century

From climate change, to food safety, to changing demographics, today's farmers are facing a host of new opportunities and challenges. Using Sam Mazza's Farm and the Goat Collaborative as a backdrop, this tour explored a few ways in which Vermont agriculture is responding to these changing times.

Sam Mazza's Farm is a family-owned, diversified produce operation that serves a variety of wholesale grocery accounts in addition to operating a retail location.

The Vermont Goat Collaborative supports New Americans (recent refugees to Vermont) goat farmers who supply the ethnic market of Burlington & Winooski. The goal of the program is to provide a local, affordable product that is raised in an environmentally sustainable way and respects the cultural needs of New American consumers.

### Tour #3: Farm-to-Institution Partnerships: Advancing Community-Based Agriculture.

This tour explored the connections and opportunities created by farm-to-institution thinking and demonstrate Vermont's system of "community-based agriculture" in action. The tour took a close look at how The Intervale Center, a Burlington area community-based food and farm organization and

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# Phones Down. Heads Up.

*By Eric Filkorn, Vermont Department of Transportation*

Effective October 1, 2014, using a handheld cell phone while driving in Vermont is illegal.

Here's why.

Each day in the United States, more than nine people are killed and more than 1,600 are injured in crashes that are reported to involve a distracted driver, according to the National Highway Traffic Safety Administration.

Distracted driving is any activity that diverts a person's attention away from the primary task of driving. All distractions endanger the safety of drivers, passengers and bystanders, and cell phone use is the number one distraction behind the wheel.

Talking on a cell phone while driving makes you four times as likely to crash, and texting while driving increases your chances of a crash by up to 23 times, according to the National Safety Council.

**23 V.S.A. § 1095b**

**Know the law.**

The ban takes effect October 1, 2014 and covers all portable electronic devices, including, music players, laptop computers, and cellular telephones.

Hands-free use is permitted under the law, and hands-free means without the use of either hand and outside the immediate proximity of the user's ear, by employing an internal feature—such as Bluetooth, for example—or as long as the device is in a cradle or otherwise securely mounted in the vehicle.

Note that the ban is lifted when the driver needs to communicate with law enforcement or emergency service personnel under emergency circumstances.

**Know the consequences.**

- A person who violates this section commits a traffic violation and shall be subject to a fine of not less than $100 and not more than $200 for a first violation, and of not less than $250 and not more than $500 for a second or subsequent violation within any two-year period.
- A person convicted of violating this section while operating within a properly designated work zone in which construction, maintenance, or utility personnel are present shall have two points assessed against his or her driving record for a first conviction and five points assessed for a second or subsequent conviction.
- A person convicted of violating this section outside a work zone in which personnel are present shall not have points assessed against his or her driving record.

**What To Do**

The safest thing to do is to not use any device while driving. If you must, we have assembled a guide to some of the acceptable hands-free technologies.

**Phones down. Heads up.**

While you're driving keep both eyes on the road, both hands on the wheel, and put your phone down.

# Vermont Farm Safety Program Open to All Producers, of Any Size

*By Louise Waterman, VAAFM*

Vermont Occupational Safety and Health Administration ((V)OSHA) has clarified what is, and is not, exempt from inspections under the small farm and farming enforcement policy. Farms with 10 or fewer employees and without a temporary labor camp are exempt from (V)OSHA inspection. (V)OSHA's new policy states that all food manufacturing that takes place on farms, regardless of size, is subject to (V)OSHA inspection. For example, an apple orchard may be exempt from (V)OSHA inspections; however, if they turn their apples into cider onsite, the cider-making operation would be non-exempt; subject to (V)OSHA inspections.

Farms with 10 or fewer employees are exempt from OSHA inspection, but they are not exempt from OSHA regulations. Every farm needs to have a written safety program in place.

The Vermont Farm Safety Program provides ways to strengthen and improve your on-farm safety program, including bilingual toolss. If your safety program isn't documented, it doesn't exist from an OSHA or insurance perspective.

Farms that have participated in the program receive discounts on their workers' compensation and property insurance premiums.

"It is important to recognize that farms in Vermont are working hard to create a culture of safety on their farms. This program helps producers develop and/or strengthen that culture and create safe working environments on the farm," says Chuck Ross, Vermont's Secretary of Agriculture.

Contact Louise Waterman at the VT Agency of Agriculture, (802) 828-6900 or Louise.Waterman@state.vt.us for an application or more information.

Vermont Farm Safety Program requirements:

- $90.00 registration fee
- Attend the Vermont Farm Safety Program orientation meeting on November 14, 2014 at the UVM Extension office in Berlin VT and at least one additional meeting via phone conference call or webinar
- Agree to a farm safety check/audit on your farm during November or December
- Follow through on recommendations for 'hazard reduction' from the audit
- Identify a farm 'Safety Manager'
- Develop and implement an individualized Farm Safety Plan
- Conduct monthly on-farm employee safety trainings

*The Vermont Farm Safety Program was developed by the VT Agency of Agriculture, UVM Extension, the VT Department of Labor and Co-operative Insurance. The program is voluntary and all information is confidential.*

# Vermont's First Official Slow Money Network Launched

*Rachel Carter, VT Farm to Plate*

Slow Money is a national movement to connect and bring together investors and donors with small food businesses and farms to help create new investment opportunities for the people, businesses, and communities that contribute to a sustainable food economy. The movement is based on the book by Slow Money founder, Woody Tasch, "Inquiries into the Nature of Slow Money," which shows how it is possible to have a thriving agricultural economy without industrial finance.

There have been many examples of "Slow Money" investments being made in Vermont, most notably with Kimball Brook Farm Organic Milk. While "Slow Money" types of financing have been emerging in Vermont in recent years, it is now that an official Slow Money Vermont Network is being formed.

Vermont is a hotbed of local food enterprises and Slow Money Vermont is forming to complement the financing options available statewide to food entrepreneurs. Slow Money Vermont is being organized through a task force connected to Vermont Farm to Plate—the statewide initiative to strengthen Vermont's farm and food economy. Slow Money Vermont aligns with the state's Farm to Plate goals to increase investments and financial partnerships in food system enterprises.

A Slow Money Vermont launch event was held Tuesday, September 16th from 5:30 -7:30 p.m. in the Chapel at College Hall on the Vermont College of Fine Arts campus in Montpelier. The event was FREE and provided an opportunity for farmers, food entrepreneurs, investors, and service providers to connect with one another to grow the ability of individual investors to engage directly in their farm and food communities. Both Slow Money founder, Woody Tasch, and Cheryl Devos of Kimball Brook Farm Organic Milk spoke about how to get involved.

More information is available at the Slow Money Vermont Facebook page: www.facebook.com/slowmoneyvermont.

The event was supported by Vermont Farm to Plate, Vermont Sustainable Jobs Fund, Flexible Capital Fund, L3C; Clean Yield Asset Management; Merritt, Merritt & Moulton, Sugarsnap Catering, Vermont Farm & Forest Viability Program, Localvore Today, Vermont Working Lands Enterprise Initiative, and Chelsea Green Publishing.

**NASDA**
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the area's largest hospital, Fletcher Allen, are working directly with local producers to create economic opportunity for farmers and improve community health. Currently, more than $1.5 million (37%) of Fletcher Allen's total annual food budget is spent on food produced in Vermont.

Overall, it was successful conference that showcased Vermont's vibrant agricultural economy and built greater awareness for the importance of Ag Literacy.

*Representatives from all 50 states and territories convened for four days to discuss the future of Agriculture.*

# Mark Your Calendar for USDA Dairy Margin Protection Program Trainings in October

*By Bob Parsons, UVM*

On September 1 the USDA announced the rules for the new dairy protection program authorized by the 2014 Farm Bill. The Margin Protection Program-Dairy (MPP) is the most significant change in dairy policy since 2002 and replaces the now defunct MILC program. The program is meant to protect farmers from disasters like we saw in 2009 and 2010.

To help dairy farmers understand the rules and learn how the program works, there will be a series of trainings across Vermont sponsored by USDA Farm Service Agency and UVM Extension. All meetings begin at 10 and finish at noon. Speakers will include Dr. Andrew Novakovic, Cornell University and Dr. John Newton, University of Illinois, who will describe the program and work through examples on decision tools.

These meetings will be held on:

**Monday, Oct. 13**
***St Albans***
American Legion
100 Parah Drive

**Tuesday, Oct. 14**
***Middlebury***
American Legion
49 Wilson Road

**Wednesday, Oct. 15**
***Rutland***
Holiday Inn
476 Holiday Inn Drive

**Thursday, Oct. 16**
***White River Junction***
Fairfield Inn
102 Ballardvale Drive

**Friday, Oct. 17**
***Newport***
Eastside Restaurant
47 Landing Street

The MPP-Dairy requires more farmer involvement with dairy farmers deciding by November 28 if they want to participate and then at what level of involvement. A huge difference between the MPP and the MILC is that the dairy farmer will have to pay to be involved.

How does the MPP work? The MPP acts somewhat like an insurance program. The MPP allows the dairy farmers to choose how much coverage they desire for a minimum return over feed costs with protection levels ranging from $4 to $8 over feed costs. The feed cost calculation is based on a set formula of costs and quantities of alfalfa, corn, and soymeal.

So if a farmer wants to assure a bottom line return of, for example, $6.50 over feed costs, the farmer will be charged an $100 administrative fee, and a graduated fee per cwt for protection above $4 over feed cost. The cost of the fee will depend on how much milk the dairy farmer produces. If returns over feed costs drop below $6.50, then the dairy farmers receives an indemnity payment. Rates depend on the amount of milk produced.

Dairy farmers are urged to attend one of the meetings close to you. The speakers will describe the program and tools available to help make decisions. We will have computers set up to assist farmers to sign up if they bring their milk production history.

For more information, contact Bob Parsons at 802-656-2109 or bob.parsons@uvm.edu, or your local FSA office.

For more on the MPP:
FSA. http://www.fsa.usda.gov for information.
http://dairymarkets.org/MPP/ for information and a calculator.

# Fall Foliage—The How and Why

*By Dr. Leonard Perry,*
*Extension Professor*
*University of Vermont*

Various parts of the country are known for their vibrant displays of fall foliage colors, none more so that New England and, in particular, Vermont. It seems odd that we get such joy from the annual death of leaves from "deciduous" trees (those that lost their leaves in fall). Why leaves change colors in fall, with some years more brilliant and long-lasting than others, is based on some simple science and environmental cues.

Fall leaf colors are due to plant pigments in leaves. The colored pigments are the same that produce colors in flowers and fruits. "Chlorophyll" is the pigment responsible for the green color in leaves, and for producing carbohydrates (sugars) plants need for growth. It does this through the process of "photosynthesis", producing sugars and oxygen from carbon dioxide and water. Chlorophyll does this through using certain wavelengths of light—primarily blue and red. It is continually being produced and replaced during the growing season.

"Carotenoids" are leaf pigments responsible for yellow and orange colors in leaves, particularly in fall. Think of orange, as in carrots. They are present during the season but masked by the green chlorophyll, except in plants that may be stressed or with yellow leaves normally. One type of these carotenoids is "xanthophyll", coming from the Greek "xantho" for yellow. Carotenoids are responsible for absorbing wavelengths of light that chlorophyll doesn't—mainly blue-green and green, as well as using excess energy produced in leaves as in high light conditions. In fall, with no chlorophyll around, they may act as a sunscreen. They've been around in plants a while, perhaps 3 billion years. Some trees with mainly yellow, or yellow and orange, fall leaves include sugar maples, hickories, beeches, birches, and tulip poplars.

"Anthocyanins" are the pigments responsible for red and purple fall leaf colors. These are only produced in the fall when sugars are trapped in the leaves. They function similar to the carotenoids, and help the leaf use up any remaining energy as chlorophyll disappears. Abundant dry weather and sunlight lead to more sugars in leaves, which in turn leads to brighter fall reds. More red in leaves, and earlier reds, can come about too from plant stresses, low nutrition, and near but not freezing temperatures. Freezing stops the process of making the red pigments. Some trees usually with red leaves include scarlet oak, sumac, some sugar maples, red maples, mountain ash, sweet gum, and sourwood.

Why sugars are trapped in fall leaves, and why chlorophyll disappears in them, is due to something called the "abscission layer". This is a separation layer of cork-like cells that develops between branches and leaf stems in response to shorter days (in reality it's the longer nights) and cooler temperatures. It seals off the flow of nutrients between leaf and stems, and eventually roots, which causes the chlorophyll to not be replaced. So it disappears during early to mid fall, leaving the yellow and orange pigments to be seen, and red pigments to be produced.

With time, even these colored pigments break down, leaving brown ones called "tannins". What colors are produced by what plants, and in what amounts, and when in relation to other plants, is due to the programmed genetics of a particular plant.

Similar environmental cues as those causing red color in leaves also may cause fall colors to come sooner, or later, or to last longer some years than others. Drought during spring and early summer may signal the plant to form the sealing barriers to leaves earlier, shutting down and turning color sooner than usual.

So while moisture is good earlier in the season, too much later in the season means more clouds, less sun, and more muted colors. Too much rain in fall, and strong winds, may cause many leaves to fall prematurely.

Cooler temperatures in late summer (as in August 2014), and plenty of sunshine, often leads to brighter colors sooner. This is particularly true if the sealing layer on leaf stems has started forming. Cool is good, but too cold (as freezing or below) can be bad, killing leaves early. So ideal for fall color would be a moist growing season early, dry late summer and early fall, with sunny warm days and cool nights during the latter.

When touring through areas with brilliant fall colors, as you enjoy them, now you should have a better appreciation of what makes this natural yearly art show happen. Although timing can vary from year to year, due to conditions already noted, generally peak colors occur from late September in northern New England and higher elevations, to late October in southern New England.

When thinking about plants with fall colors for your own landscape, check out other articles on this topic (pss.uvm.edu/ppp/articleS.htm). Take a virtual foliage tour, and get ideas on colorful landscape plants, at the U.S. National Arboretum website under the Gardens Photo Gallery (www.usna.usda.gov/).

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# Keeping Your Soil Healthy

## *Soil Health Field Day Held At The Vorsteveld Farm*

*Jy John Roberts, VAAFM*
*Photos provided by Maria Steyaart and John Roberts*

An all-day event was held at the Vorsteveld Family Farm in Panton, Addison County on August 29th 2014. This was an educational event put on by Jeff Carter, UVM Agronomy Specialist and his entire staff including Kirsten Workman, Rico Balzano, Cheryl Cesario, Nathaniel Severy, Dan Infurna, Kristin Williams and Lindsey Ruhl. The focus of the event was soil health and over 100 people attended, majority of which were farmers, not only from Addison County but a few from neighboring counties.

The purpose of the event was to show farmers that the old traditional methods of creating a seedbed -fall plow, bare soil over winter and harrow in spring-to establish, for example, grass or corn can be improved dramatically by cover cropping, no-till or minimum till farming and creating a system to improve crop yields, reduce nutrient loss, improve soil health and save money. By improving Vermont's soil management systems, farmers will also be reducing the amount of sediment, phosphorus, and other potential pollutants, from migrating through farm fields and into the waterways of the State.

The key to an effective no-till system is to maintain and not disturb, as much as possible, the basic structure of the soil. Traditional moldboard plowing inverts the soil, burying any organic matter in a zone of low oxygen, which inhibits organic matter breakdown. Breaking the soil connections between the top soil and the sub-soil and exposes all the carbon sequestered in the soil to oxygen, which causes its breakdown and release into the atmosphere as carbon dioxide, a green house gas. Probably the most important benefit of improved soil health is the fact that this will vastly improve water infiltration to the soil. For every increase of 1% in soil organic matter about 27,000 more gallons of water will soak into the soil instead of running off and into neighboring waterways. This water runoff is the transportation system for sediment, and phosphorus, both particulate and dissolved. In addition improved soil health will allow for more rapid transfer of soil nutrients into a form that the plant can use to grow and yield.

*George Tucker of NRCS demonstrating the flow table. From left to right, samples included: Forest, Pasture, Corn Stubble, No-till and Bare Soil. Jars in front indicated runoff amounts and just behind the water that in filtrated. As the photo illustrates, the bare soil sample had the most amount of water surface runoff, and least amount of infiltrated water.*

After an initial introduction by Jeff Carter we were split into two groups, the group I was in also included Maria Steyaart, a new Agency employee focused on identifying BMP practices exclusively in St. Albans bay watersheds. The first demonstration was of a field flow table, showing what would happen to a field under a 1" rainfall, with certain soil covers and tillage systems. These included five trays representing a woodland trash covered soil, grass covered soil, corn stubble, minimally tilled soil and bare soil. A spray nozzle was run at a certain flow rate and for a certain time to represent an inch per hour rainfall. Jars were strategically placed to catch the water that flowed off the field and the water that infiltrated the soil. The bare soil and the corn stubble had the most off flow of soil, with the woodland, grass and minimum tillage having superior infiltration and less run off (see attached photo). The main point was to show that the more we can encourage water to infiltrate soils the less runoff and therefore the less nutrients being carried off the field.

Our next focus of interest was two pits dug about 100 feet apart from each other into different soil types. The first pit was dug into a predominately Vergennes clay soil, to a depth of approximately 3 feet and about 50 feet long. Joel Myers a private consultant from Pennsylvania, on no-till farming, used the two pits to show the audience where compaction can take place, and how the proper use of cover cropping and minimum tillage can alleviate compaction problems, improving soil health and tilth. Even in clays the roots of just simple grasses can penetrate to some depth, 2-3 feet or more, if soil health is good. In addition, root systems can dramatically reduce soil compaction caused by heavy machinery use at inappropriate time.

Our next stop was another pit that had been dug across where a manure injector had been run, perpendicular to the direction of travel. The pit demonstration showed how different shaped and length tines running at different depths and spacing's could inject suitable quanti-

*Pit in Vergennes clay that had a fall through spring cover crop.*

ties of manure with minimal surface disturbance. One of the issues of a livestock farm is making sure that the nutrients are recycled on the farm while eliminating run-off. Of course, an advantage for livestock farmers is that the manure when properly used and in a timely fashion, can markedly reduce the need for purchased fertilizer. The audience was able to see that a narrow tine running at about a 7" depth could handle significant quantities of manure, 4-6,000 gallons per acre, with little surface disturbance thus maintaining the no-till, or reduced till benefits. Included in this demonstration were the benefits of dragline manure application. Dragline is the process whereby manure is pumped through an 8' flexible hose directly from the manure pit to a surface sprayer or injector thereby eliminating the very heavy, soil compacting tankers from the fields. Today it is possible to pump manure over two miles from a storage pit to the field.

*Manure injector being pulled through soil at 2", 7" and 10". In a farm application, a feeder hose would be attached to the pipe where the orange triangle is on the left side.*

*A no-till small grain and forage seed drill.*

We then all visited a series of replicated plots where cover crop trials were being done. These trials used a variety of different seed types trying to determine what grew well, what was easy to work with both at seeding time and in the spring when the cover crop needed to be either incorporated or harvested. In addition, cover crops stored nutrients best over winter and were easily broken down in the spring to release any nutrients to the new crop. The cover crops included a number of varieties, in different combinations. The varieties included Austrian winter peas, Jerry oats, Eco-Till Radish, winter triticale, Crimson clover and winter rye.

After this station there was a final visit to look at various machines that are significant in making no-till or reduced till work on the farm. The weather for the day was perfect and there was a good turnout of farmers with many questions being asked. A lot of good and useful information was revealed with a positive interaction between the presenters and the audience.

# Agency of Ag Welcomes New Farm-to-School Coordinator

*By Alison Kosakowski, VAAFM*

The Vermont Agency of Agriculture is excited to welcome Ali Zipparo, who will manage the Agency's Farm to School programming.

Ali came to the Vermont Agency of Agriculture, Food and Markets Development Division from UVM Extension, where she coordinated a young farmer business development program-the Center for Sustainable Agriculture's Youth Ag IDA Program. She stepped into her role as Senior Agricultural Development Coordinator at the VAAFM in August, and will be working on Farm to School, local food procurement in state government, the state workplace CSA, and other farm to institution initiatives.

*Ali Zipparo*

Ali spent seven years driving a school bus in Connecticut, before finishing her undergraduate career. During her career as a bus driver, Ali spent two seasons working on a diversified, organic vegetable farm, in her hometown of Ridgefield, CT. During her tenure in Connecticut, she also established an urban community garden in downtown Danbury, CT. She came to Vermont in 2009 as a VHCB Farm Viability intern, while she was finishing her undergrad at Smith College, and never wanted to leave. After working for VHCB, she did work for the Farm to Plate report, co-authoring several sections and working on benchmark data. Since then, she has worked for American Farmland Trust, the Vermont Attorney General's office and Senator Bernie Sanders. For Senator Sanders, she worked alongside Jenny Nelson, his agricultural policy and outreach liaison. She is currently taking her last course for a Master of Public Administration at UVM. She lives in Burlington, where she serves on the city's Development Review Board.

# VERMONT VEGETABLE AND BERRY NEWS

*Compiled by Vern Grubinger, University of Vermont Extension*
*(802) 257-7967 ext. 303, or vernon.grubinger@uvm.edu*
*www.uvm.edu/vtvegandberry*

## Reports From The Field

(Newport Town) Garlic drying conditions were surprisingly good despite the wet start. Due to our heavy soils we wash our bulbs to remove most of the soil, and then rapidly dry the plants. This will be the second year we've done it with no regrets; staining is near zero and very little clean-up to do after curing is complete. During the last week of July I observed 20-30% of the crop to have leaf damage from leek moth. This was just before harvest; yield and plant vigor did not appear to have been affected. This past week while finishing up final cleaning of bulbs I observed several holes which were clear through the garlic skin and didn't think much of it; crab grass roots/runners are sometimes to blame. However, I then observed one of the same green larvae seen just prior to harvest on the outside of the garlic leaves, along with the characteristic webbing. It was now emerging from one of the holes. Fortunately only about 5% of the crop appears to have holes on the bulbs themselves. We are unaware of the extent of damage that will be caused from now until planting, but will update at that time.

(Elmore) Still dry here, I think the rains keep skipping us. The deep roots of fruit and nut trees can care less, though and are putting out great crops of plums, apples, pears, hazelnuts, pine nuts. Our baby ginger in up about 2 feet and we are feeding and hilling it and hoping for some good pungent roots and rosy stems and good weight. Horseradish and asparagus are very happy but our vegetables are barely growing. I think the deep rooted plants thrive in these conditions but the newly planted annuals just need a lot more care and water. Last of the blueberries and currants going to market and we are harvesting every plum for a big order; have to keep it mowed so they fall on soft grass and we can find them. Eating peas from our cover crop blend is always a bonus around now. We will plant our last cover crop for the season next week, both between our rows and for one more earth stroking month or two in our vegetable beds as harvests come out.

(Rochester) After four weeks of success with our Bird Gard distress calls, the Blue Jays figured out the danger was not real and began to get into the blueberries, but we protected the crop fairly well during abundance. SWD numbers seem not to have built up since we first caught them two weeks ago, allowing the late lingering blueberries to ripen and be picked. Japanese beetle numbers are finally dropping. We have started picking fall raspberries and if we get enough heat and a late enough killing frost, the yield should be very good.

(Richmond) We are having a great fall raspberry season here. We went from twelve 300-foot rows done to 8 rows, to help us better manage the berries if SWD returns. Thankfully no sign of it yet. Lots of PYO berries are being picked.

(Huntington) Late blight identified on red potatoes on August 6, sprayed the whole field with copper, and mowed the offending variety. Ten days later all varieties showed some LB so we mowed the rest. The crop was in great shape beforehand (May 12 planting date) so yields have not been badly affected. Began spraying a tank mix of Pyganic + Aza-Guard + Nu-Film + Stylet oil + Regalia + Serenade in early July after the leafhopper population started to show damage, and we had our best-ever foliage into August until LB arrived and I hitched up the flail mower. Not sure how much of that was luck as opposed to spray regime. Garlic is showing a bit more Fusarium in storage than had been expected, though ultimate cull rate is TBD. Our new storage barn addition is making putting up storage crops a bit less stressful this time of year. My dreams are full of smooth concrete and pallet jacks.

(Charlotte) Blueberry harvest has more or less come to end with decent yields and excellent flavor/sugar maturity with the dry conditions. We have just completed netting our fall raspberries for SWD. We used the Pro-Tek 80 from Dubois on the exterior walls of our high tunnels. The investment seemed more cost effective than an annual spray program. We are hoping that this infrastructure gives us full protection without the use of sprays as this is something that our customers (and farmers) want. I am not as worried about the decreased airflow as much as the limited pollination. We have bumble bees in the houses but it still seems quiet in comparison to the uncovered fall berries. The next couple weeks should be the test of effectiveness as the SWD population grows.

(Benson) We're looking forward to cooler weather, wood cutting, and winter markets. Winter storage crops look very good with cabbage, rutabaga, beets, carrots, celeriac and winter radishes in great shape. All winter kale is planted as of today except high tunnel kale. Winter greens seeding is on schedule with lots more seeding to come over the next six weeks or so. All in all it seems we are well positioned for winter markets.

(Westminster West) I saw first signs of late blight on 8/20 on potatoes. I removed foliage and used a copper soap (.08% copper octanoate), alternating with Serenade. This appears to have had no effect; all eventually succumbed and I had to remove all tomatoes and foliage on all potatoes. However, my blight resistant tomatoes, Defiant, Mountain Merit, and Mountain Magic, are all showing good resistance and are still standing with lots of fruit. I would love to hear of folks' experience with 'Iron Lady' which I didn't grow this year. I also wanted to report that one heirloom variety of orange cherry "Amy's Apricot" seems to be showing some LB resistance and is still standing with ripening fruit. I only have one plant - so not exactly definitive, but I will be interested to hear back from my seedling customers if they have had the same observation with plants they bought from me. Seed was from Tomatofest. Powdery mildew on cucurbits started 8/20. I sprayed Serenade alone or in combination with Actinovate and this DID appear to suppress or slow spread of PM considerably. First elderberries ripe and very heavy crop!

(Plainfield) Tomatoes are pouring in. Greenhouse cherry and grape tomatoes fruiting heavily in spite of leaf mold on some varieties. The disease does not seem to effect fruit quality or overall yield, as it started up after the plants were fully grown. Looks ugly, though. Mountain Merit has very clean fruits out in the field, as does Plum Regal. Butter Boy and Avalon butternuts are loaded with squash well on their way to maturity. Root crops filling out, cabbages heading more slowly than I wish. I could fire up the irrigation, but there is always a rainstorm a few days off in the forecast. Still spraying for cabbage moth. Generally a very nice growing year.

(Grand Isle) Overall it has been a great growing season to date. Our weekly shipments of Trichogramma wasps from IPM laboratories have proved to show great promise in controlling the corn borer worm in our peppers and corn. Even with a bit of a later start in the spring, our winter squashes moved along quickly and are showing full maturity and good yields. We rediscovered the obvious this season: that a family farm works best when communication is enhanced with a regularly scheduled weekly meeting. We have decided we will always make time for a meeting, regardless of how busy we are feeling.

*continued on page 15*

# MARKET REPORT

## Wholesale Prices

*September 16, 2014*

*Wholesale prices paid per dozen for Vermont Grade A brown eggs delivered to retail stores.*

**Vermont Egg Prices:**

Jumbo . . . . . $2.30
X-Large. . . . . $1.70
Large . . . . . $1.65
Medium . . . . . $1.32

*Market is steady and supply is good.*

**You can find more reports online at http://www.ams.usda.gov/marketnews.htm This is the web source for *USDA Market News***

## Northampton, MA • September 16, 2014

*All prices are per hundredweight on the hoof unless otherwise indicated.*

*Source: Northampton Cooperative Auction Association, Inc., www.northamptonlivestockauction.homestead.com*

| Calves: | | Low | High | |
|---|---|---|---|---|
| Good & Choice: | 61-75 lbs | 40.00 | 65.00 | cwt |
| | 76-95 lbs | 60.00 | 82.00 | cwt |
| | 96-105 lbs | 40.00 | 70.00 | cwt |
| | 106 lbs and up | 65.00 | 78.00 | cwt |
| Farm Calves | | 100.00 | 320.00 | cwt |
| Starter Calves | | 68.00 | 145.00 | cwt |
| Feeder Calves | | 96.00 | 108.00 | cwt |
| Vealers | | none | | cwt |
| Bulls | | 91.00 | 134.00 | cwt |
| Heifers | | 96.00 | 108.00 | cwt |
| Replacement Cows | | none | | each |
| Steers | | 82.00 | 158.00 | cwt |

| Cows: | Low | High | |
|---|---|---|---|
| Canners | 40.00 | 90.00 | cwt |
| Cutters | 94.00 | 110.00 | cwt |
| Utility | 112.00 | 121.00 | cwt |
| Sows | none | | cwt |
| Hogs | none | | cwt |
| Boars | 25.00 | | cwt |
| Shoats | none | | cwt |
| Feeder Pigs | 50.00 | 77.50 | each |
| Lambs | 150.00 | 250.00 | cwt |
| Sheep | 65.00 | 140.00 | cwt |
| Goats | 60.00 | 375.00 | each |
| Rabbits | 2.00 | 8.00 | each |
| Hay (5 lots) | 2.90 | 4.10 | bale |

## Addison County Commission Sales • Middlebury, VT • September 15, 2014

**Cattle: 96**
**Calves: 242**

| Slaughter Cows | | | |
|---|---|---|---|
| Breakers 75 - 80% lean | 95.00 | 112.50 | cwt |
| Boners 80 - 85% lean | 95.50 | 104.50 | cwt |
| Lean 85 - 90% lean | 55.00 | 106.50 | cwt |

| Feeder Calves | | | | |
|---|---|---|---|---|
| Holstein Bulls | 92-125 lbs. | 80.00 | 280.00 | cwt |
| | 80-90 lbs. | 80.00 | 222.00 | cwt |
| Vealers (good & choice) | | | | |
| | 70-120 lbs. | 48.00 | 73.00 | cwt |
| Holstein Heifers | 74lbs-92lbs | 70.00 | 210.00 | cwt |

# CLASSIFIEDS

## Advertising in Agriview

**Classified Ads:** ***Free to subscribers only.*** Limited to two ads per issue, ads will run for two issues. ***Must include subscriber number with ad request*** (number appears at the top of the mailing label)

**Deadline For Ads:** 10 days prior to the publication date.

**Display Ads:** Information available upon request

**Classified advertisements must be sent:**

- *By mail:* (see address on page 2)
- *By e-mail:* (to Agr-agriview@state.vt.us)
- *By fax:* (802) 828-2361
- *Online at:* http://www.vermontagriculture.com/Agriview/agriviewclassified.html
- **We do not accept ads over the phone.**

Only items of an agricultural nature will be listed. The only real estate which will be listed are tracts of Vermont land two to five acres or more which are being used or can be used for agricultural purposes. All Feed, Hay and Forage ads must have county, town, and phone number, ***and must be renewed each month.***

The Secretary reserves the right to make a final decision on the eligibility of items listed. The editor reserves the right to censor and edit ads. **The Vermont Agency of Agriculture, Food and Markets assumes no responsibility for transactions resulting through advertising in *Agriview*. Advertisers are cautioned that it is *against the law* to misrepresent any product or service offered in a public notice or an advertisement carried in any publication delivered by the U.S. Mail.**

***Ads must be limited to 40 words or less.***

### Cattle

Registered Holstein bull,14 months, gentle disposition,good confirmation, red-tinged hair, Sire: Major Bolivia Allen(mat. brother to Goldwyn) Dam: Norwich Talent Natilda, deep pedigree back to Cook-Farm Starbuck Flip. many Ex.& VG dams. Good production. $1200, call Judy 802-866-9024, (9/14).

FEEDER CATTLE: 18 head coming yearlings, Angus/Hereford, 4 steers and 14 heifers, approx. 700#, Complete vaccination history, Call For current price and more info. Lucas Cattle Co. 802-779-7261 (9/14)

5 Registered Belted Galloways (black with white belt) – 2 cows, 3 yo, both have had 1st calf & are nurturing mothers; 2 heifers, 2 yo; 1 heifer, 1 yo. All are sired by Gold Lifetime Award Winner Aldermere Roby. For details call 802-948-2211, Orwell, Vermont. (9/14)

Hereford heifer, 2 yrs old, for sale or trade. Excellent breeding stock, purebred, polled, but no papers. She will lead, been hitched/tied friendly, cycling regularly. Sire, LCG Master Duty 51J. She will be 2 in July, Would be willing to trade her for 2 young Hereford steers. Asking $1800 802-875-3659. (9/14)

Registered Jersey heifer, due 8-5-14. Sire: Sunet Canyon Medalist-ET, Dam Whiterock Catamount Zeva, bred to Wilsonview Z Salvadore. $2000. 802-728-4489 Also for sale: Registered Morgan horse, beautiful, $1800. 802-728-4489 Subscriber #3003 8//14 5D 05061 David Silloway, Silloway Farms (9/14)

Organic fresh cows, grass fed, very healthy. Cash or bank checks accepted. 802-309-9209 (10/14)

Young Ayrshire bull. Fence trained gentle ready to breed. $350 802-586-2857 (10/14)

Jersey Heifer due late October. She is a sweet heart very tame was raised for family cow. Great heifer for small herd. 802-685-4566 (10/14)

Belted Galloway registered herd for sale. 3 cows, 2 older heifers, 2 heifer calves, 1 bull calf. Great genetics! $8,500.00 for all. Individual pricing available on request. S. Strafford, VT. 802-765-9639 (10/14)

Black angus bull, 2 y/o. Est. weight is 1,000 lbs. Calm, friendly and respects fence. Would like to see him go for a breeding bull. $1,200 firm. In Albany VT. (802) 754-6047, please leave a message on machine. (10/14)

1 Polled Hereford Bull. 2.5 Years old, Gentle, Proven, Electric Fence trained, rotational pasture, Grass Fed, $1800 OBO

Polled Hereford Cows. Grass Fed, Electric fence trained, rotational pasture, 2 pairs Bred cow calf pairs $2000 OBO, 1 Bred Cow $1600

# CLASSIFIEDS

OBO, 1 Bred Heifer $1400 OBO Berkshire, VT Call (802) 933-6143 (10/14)

Three certified organic registered Jersey bred heifers due 10/17/14, 11/27/14, and 11/28/14, all to AI service sires. Appraisal scores on dams all very good. Performance pedigrees available upon request. $1750 each 802-748-8461 (11/14)

5 short-bred heifers for sale: one Holstein heifer and four Jersey/Holstein heifers. 802-438-5761(11/14)

Jersey heifer calf. Certified organic. Born 7/2/14. From high producing dam. $200. Susan & Barbara Carpenter, Cabot. 426-3331(11/14)

14 Certified Organic Dairy Dry Cows. 7 due within 2 mos., 7 due in Nov./Dec. Mostly Holsteins with some belted and. Super milking cows with low SCCs! Prefer to sell as a group. Also have 5-6 cows currently milking for sale. Contact 802-582-9026. (11/14)

Jerset heifers for sale. Due late Oct. She is a sweet heart, vert tame. Was raised for family cow. Great heifer for small herd. 802-685-4566 (11/14)

Beef cattle cow calf pairs $1700. Yearling heifers $750 or $1.49 a lb 802-728-3760 (11/14)

## Employment

Consider Bardwell Farm in West Pawlet, VT is urgently seeking a twice daily weekend milker for our herd of 120 dairy goats. Milker will also be responsible for morning and evening feedings of our meat goats, doelings, and chickens. This is a wonderful opportunity for anyone looking to gain experience with animals on a working Vermont dairy. March-May kidding f/t paid internship also available. Contact peter@considerbardwellfarm.com. (11/14)

Maple/Christmas tree farm in Shoreham, Vermont looking for general farm help 1 day a week. Pay $11-$17 depending on carpentry or chainsawing experience. Please contact 802-897-2448. (11/14)

Home Bakery in Shoreham, Vermont looking for kitchen help 1 day a week.

Baking knowledge and experience is necessary. Pay $10.75 - $12.00. Please contact 802-897-2448. (11/14)

## Equipment

Irrigation pipe well over 1000ft. 4inch & 6 inch fixings. 802-754-8487

International No.56 silage blower short hopper auger feed. 892 NH chopper with both hay and 2 row corn heads. Leave message 802-372-4513 (9/14)

Claas Variant 180 round baler, makes 4x6 bales for sale $10,000. With processor excellent shape NH tandem spreader $1600. Call 802-537-2435 (914)

Delta Radio arm saw 3Fqze make an offer. 802-558-0386 (9/14)

5000 gal stainless steel bulk tank being used now. 3 wagons, 1 express wagon for horses. 2 walking plows. 1 pair light work harnesses, 12' dump rake. 3 point hitch, 4 spear round bale carrier for 2 bales. 2 spear, 1 bale carrier, 6' wide houle rock rake. Cord wood saw rig has a table to sharpen fence posts. 10'x12' wide overhead door with hardware. Cememnt mixer with electric motor 1/3 bag. 2 row corn planter for horses. 802-793-4555 or 802-476-4423 (9/14)

2 horse wheel harrow – excellent shape $150. Sap or water pump 1"- 1742 gph $125. 802-674-5044 (9/14)

International 766 Tractor W/ Bucket Loader!! Just 5250 hrs. 66-86HP. Recent upgrades with brand new seat, new entry steps, etc. $6500. 802-782-8833. (9/14)

KM Vicon 281 Case Hay Mower in very good condition. $3500 firm. Also two New Holland 718 Corn Choppers that could be fixed up to run or used for parts. Call 802-782-8833. (9/14)

Raised Bed Plastic Mulch Layer - Rain Flo model 2550 for sale. Purchased 2011 from Market Farm Implement. Adjustable 1" to 6" high beds, 3' - 4' wide. Need 7 to 10 hp per inch of bed height. $2,800 Call Chris: 802-233-4781 or info@breadandrosescsa.com (9/14)

Monitor gathering tank: rectangular tank with rounded oval ends. Original strainer, cover, and drain pipe. This gathering tank is clean and sound with no dents and is leak free. Asking $200.00 8'diameter x 30" tall galvanized stock tank with side bottom drain. This tank is as new, always under cover in my sugarhouse as a holding tank. No dents, rust or leaks. Asking $200.00 OBO. Newton Farm South Chittenden. 802 773-8898. (9/14)

NH 256 Rollabar rake in excellent condition. New tires, ready to rake. $1900 Located in Corinth. (603) 778-5276 or (802) 439-9132 (9/14)

Kuhn FC 4000 RG Mower conditioner center pivot disctine, rubber rolls 13" cut 1000 RPM stored indoors excellent condition $12,800. New Holland 30 Forage Blower very good condition stored indoors $900. Richardton Silage/Blower Table model 1016 very good condition $2200. 802-759-2480 (9/14)

JD444 Loader – new paint, tight pins & bushings, brakes & lights. Nice small loader. Asking $12,000. 802-584-3025 (10/14)

1971 Chevy 1 ton cab & chassis. Dual wheels. 350, 4 speed 1500 or best offer. 1969 Chevy ½ ton four wheel drive. V-8 4 speed 1000 or best offer. 603-272-4903 (10/14)

Rain flo raised bed plastic mulch layer purchased 2011 from Market Farm Implement Adjustable 1" – 6" high, 3' -4' wide beds like new condition $2800. 802-922-6782 (10/14)

Complete milking system to handle 200+ goats. Includes: 500 gal Mueller bulk tank and washer, pipeline, head locks for 16 animals, 6 ton grain bin including auger and motor and 3 hp vacuum pump. All in good condition. $14000. 802-586-2857 (10/14)

Round Bayle handlers $500. Steel post 7 ft $5 per piece. 100 sap buckets with covers $2.50 each. Horse drawn plow $95. 802-895-2833 (10/14)

24 ton Victoria grain bin. 9 to 10 ton grain bins. 80 – 90 feet elevator good shape 802-898-4683 (10/14)

24 ton Victoria bin with 6" auger like new. 13 ton grain bin. 8-9 ton grain bin excellent shape. 80 feet new Halford hay elevator. 32 feet hay elevator good shape802-898-4683 (10/14)

Valmetal Silage Conveyor. 30 ft x 9 inches wide. Excellent condition. 802-433-5837 (10/14)

Kubota Tractor M4030Su 44HP 18" tires at 5 ft centers, with Woods Bucket loader, 2wd.

In great condition, 516 hours! This tractor is great working order, serviced yearly. Selling for $12,000. Taylor Pittsburgh Rotary Tiller 962 Series - gear driven Makes 4 foot wide beds. Purchased in 2009. The safety guard/shield is missing. Selling for $1,200 802-233-4781 (10/14)

Caterpillar truck engine-Model 3406- 290hp- - Runs great..$750. 802-376-4041 (10/14)

Kuhn FC300G- 10' disk mower- flail.. $5500. Int'l 7' mower/cond…$1500. Kuhn FC302- 10' Disc moco-flail..$6200. M & W round baler- ..$4500. 3PH Sq bale chopper..$650. Claas Disco 3000TRC- 10' disk mow-rubber roles…$5500. JD 336 Baler w/kicker ..$4500. NH 256 rake..$1600. 802-376-5262 (10/14)

Howard 2-door floral cooler, 53" W x 79" H x 30" D, on casters. Top-mounted compressor, 115V, 11.0 amps. Bought used in 1997, operated 4 months each year. $500. Call 802-875-2758 (11/14)

NH BR740 Silage spec- net wrap…$12,000. Kuhn FC353GC- center pivot-disk mow…$8500. Kuhn FC302G- 10' disk mower-flail cond..$6800. JD 1360 Disk mower/ cond..$4800. NH 408 Side dischg man sprdr…$2400. Vicon RS510T- 17' tedder…$2800. Vicon RS410T- 14' tedder…$1450. 4' Woods Bush hog....$800. 802-376-5262 www.youngsmilkywayfarm.com (11/14)

JD 3940 Chopper- 5' head…$2200. NH BR740 Silage spec- net wrap…$12,000. Kuhn FC353GC- center pivot-disk mow…$8500. Kuhn FC302G- 10' disk mower-flail cond..$6800. HiSpec Super 14 MixMax mixer wagon…$2800. Trailer- Pinnel hook- 18'x8'- 6 ton..$1650. 3PH Sq bale chopper..$650. 802-376-5262 www.youngsmilkywayfarm.com (11/14)

Allis Chalmers 50-50 Tractor for sale. 2WD 50 HP 2978 hours Has a turtle/creeper range as well as Low and High range making it good for transplanting/cultivating in addition to other field work. Adjustable rear and front wheel base for different bed widths. 3 pt hitch, PTO, drawbar, 2 hydraulic ports Is in good working order and has recently been gone through by a mechanic Has a shade cover that needs repair, paint is fair, Manual available. $5500 OBO Call Mike 869-1214 or email mikeghia@gmail.com (11/14)

John Deere 676 snowblower for 3 p.h. old but runs good $750. FIMCO boom sprayer with 110 gal. tank $750. Brand new 20' x 2' culvert $275. Spin spreader for 3 p.h. $50. Newbury. Tel. 802-584-3769 (11/14)

4'x8' hydraulic dump cart $1,200. Woods 1130 post hole digger $400. Woods RM500 5' rotary mower $400. Silage blower $100. MK Martin Track Curry 5' riding arena groomer $1,800. 4.8 kw generator $250. 2012 Sears riding lawn mower

# CLASSIFIEDS

$800. Craftsman self-propelled lawnmower $150. 5' chain harrow w/mounting frame for 3-point hitch $400. All reasonable offers considered. Moretown. mac@gmavt.net or 802-496-9281. (11/14)

EnRosi 17-ft, 4-basket PTO tedder in excellent condition. $1900. Grimm ground drive tedder, completely rebuilt: professionally sand-blasted and painted, new tines, belts and tires. $1000. Located in Corinth. (603) 778-5276 or (802) 439-9132 (11/14)

Ground-driven Pequea 50G manure spreader: 2 wheel; 50 bushel; Barely used! Selling because its too small. 518-645-2697 ash.kay.lee@gmail.com (11/14)

MF 283 loader for sale-- only loader, bucket, hydraulic system and mounts; came off MF 236 fits other Masseys; great working condition; new cylinders this spring; 518-645-2697 $2700obo (11/14)

JD 24T baler no kicker, Kuhn Gfzzn gyro tedder, new idea side rack (no front wheel) Take all, price will be better 802-291-0543 (11/14)

International 826 Diesel 4 new tires many new parts $7500. 1982 international dump truck model 1824, 10pt body $2500. Belshe 9 ton equ trl needs wock $1000. 802-948-2627 (11/14)

5 horse power vacuum pump good shape. 32 front hay elevator like new. 4x12 leader pans with evaporator never used. 802-895-4683 (11/14)

New Holland tandem maure spreader good shape $1200. Gehl nine wheel pinwheel rake, working width 19" for $1200. 14ft tandem cattle trailer $400. 20 ton running gear with truck tires $1000. 802-537-2435 (11/14)

Meat band saw- US Berkel – commercial $1100. 3 Bay SS sink $400. 802-365-4000. (11/14)

Allis Chalmers 50-50 Tractor for sale. 2WD 50 HP 2978 hours Has a turtle/creeper range as well as Low and High range making it good for transplanting/cultivating in addition to other field work. Adjustable rear and front wheel base for different bed widths. 3 pt hitch, PTO, drawbar, 2 hydraulic ports Is in good working order and has recently been gone through by a mechanic Has a shade cover that needs repair, paint is fair, Manual available. $5500 OBO Call Mike 869-1214 or email mikeghia@gmail.com (11/14)

## Farm & Farmland

42 acres Weatherfield Vt. 70' barn 2 ½ stories, 3 cow stanchions. 2 bedroom house. Wood & central heat. Cathedral ceiliong. Hard wood floors. Fruit trees, blueberry bushes open fields-stone walls - maple orchard – hardwood - lg garden. 2 miles from I-91. Great for young couple. Privacy. 802-674-5044 $325,000. (9/14)

Farm for Sale in Fayston, VT - 283 acres - 30 acres open, remainder managed woodland. 1850s house, cattle barn, shed. Land protected by conservation easement and option to purchase at ag value. Vermont Land Trust seeks buyers to use the land productively for agriculture and forestry. $225,000. Contact Liza Walker at (802) 496-3690 or liza@vlt.org or www.vlt.org/tenney (10/14)

Farm for Sale - St Johnsbury, VT – 35 acres with 26 tillable. House, dairy barn, ag buildings. $160,000. Restricted by conservation easement and option to purchase at ag value. Vermont Land Trust seeks buyers who will farm commercially. Contact Jon Ramsay at (802) 533-7705 or jramsay@vlt.org or www.vlt.org/patenaude (10/14)

Farm for Sale in Fairfax - 326 acres - includes 120 acres hay/pasture. House and 80 stall dairy barn. Protected by conservation easement and option to purchase at ag value. Vermont Land Trust seeks buyers who will farm commercially. $350,000. Contact Jon Ramsay at (802) 533-7705 or jramsay@vlt.org or www.vlt.org/berthiaume (11/14)

## Hay, Feed & Forage

2014 1st Cut round bales, 4x5 bales, timothy and red clover mix, real clean hay. $35/bale 802-779-7261 (9/14)

Small square bales and 4x4 dry round bales undercover. 802-282-3254 (10/14)

NOFA Certified Organic 2014 First Cut Wrapped Round Bales. Bales are 4' x 4' with 50% moisture content and weigh about 1500 pounds. Excellent quality and quantity. Call Buffalo Mountain Farm 802-472-9360 or 802-888-7881 (11/14)

NOFA Certified Organic 2014 First Cut and Second Cut Wrapped Round Bales. Bales are 4' x 4' with 50% moisture content and weigh about 1500 pounds. Excellent quality and quantity.

Call Buffalo Mountain Farm 802-472-9360 or 802-888-7881. Bales are ready to go anytime. We load and for a delivery charge we can deliver small quantities. (11/14)

Dry 4x4 round bales stored inside and small bales: 1st and 2nd cut. 802-282-3254 (11/14)

### Addison County

Large Square Bales, 1st & 2nd Cut, Under Cover, Never Wet, SL Moore @ (802) 463-3875 or Alden @ (802) 989-0479. (11/14)

### Orange County

Excellent 2nd cut orchard, timothy and clover. Square bales in wagon on field in Corinth, $4/bale. Early September. (802) 439-9132 (9/14)

### Windham County

Hay available, Windham, Vermont. First and second cut; for more information please call George Dutton at (802)380-3898 (11/14)

## General

The Capital City Farmers Market is committed to a high ratio of agricultural vendors to craft and food vendors in its market mix. The market is well represented by produce, vegetable, perennial, and flower starts, meat, cheese and dairy, and maple syrup but we are seeking additional agricultural growers for products such as grains, beans, fruit (except for apples and blueberries), and other specialty crops. We prioritize growers from Washington County or neighboring counties and require the producer to attend at least half of the markets signed up for. Please call Carolyn Grodinsky at 223-2958 if you are interested in vending this season or next year. (9/14)

Pine Boards (for flooring or other projects) - 14" and 17" boards. 400 board feet. Stored inside and each board is sticked. Boards planed and sanded. 5 boards 14 inches wide and 123 inches long;15 boards 17 inches wide and 195 inches long. $1,000 or Best Offer; Woods #720 Rotary Cutter (Brush Hog) – Like New, used once for five hours. No longer need. Retail $4,259, asking $3,200 or Best Offer; Sickle Bar Mower for BCS Two-Wheel Tractor -53 inches, Never Used. $1,000 or Best Offer. Orwell, VT 802-948-2211. (9/14)

DR Field and Brush Mower. 17H Kawasaki engine, wide cut, heavy duty brush blade & reg. blade, tire chains, parts manual, instruction booklet included. Well maintained. Great machine. $1500.00. Williston. 872-0709. (10/14)

50 gallon cider barrel with roll a round stand$250 802-948-2627 (11/14)

## Goats

Lazy Lady Farm has 3 reg. alpine bucks for sale just in time for breeding season. $400 each. Also we will be offering 10 bred doelings this year. $500 each. They will be bred in Dec and will be preg checked before selling. We have a CAE free herd and are on DHIA testing. Great bloodlines and production. We have a 2200 lb. herd average. Write to laini@lazyladyfarm.com for a list of the doelings. And visit our website for more info on the farm and the goats. lazyladyfarm.com (9/14)

20 open dairy goats herd reduction. I lost my buck but they are ready to breed. Closed herd. 802-309-9209 (10/14)

Cute Angora goat kids for sale. Beautiful white mohair on the hoof. Great personalities, healthy, ready to wean in early August. $300 registered/ select individuals available unregistered $200. 3 year old buck, beautiful curls, ready for work. $350 registered. Bluefaced Leicester ewe lambs. Long white wool, excellent for spinning soft, draping yarns. Well built, healthy twins. $300 registered, $200 unregistered. Stonesthrow Farm, Wallingford, VT. 802-446-3325 katsmith@vermontel.net (10/14)

Looking for farmer with an extra farm building that could be converted to raise ducks. 4000 sqft or more ( elec & water) For more info, Email: christophevermont@gmail.com or call: 802-4974549 (10/14)

Nigerian Dwarfs: Full grown wethers (2) and does (2), horns intact. Pet quality, best for grazing, not meat or breeding. Excellent foragers and brush clearers. Easy keepers. Herd reduction, prefer to sell in pairs or together to loving home. $75 per wether, $100 per doe. Group/pair purchase discount. Contact Michelle at goodenough-forme@comcast.net (10/14)

Angora Goats for Sale Registered AAGBA and Unregistered, purebred Bucks and Does from 3 months old to mature adults Granville, NY Call Heidi in the evening at 518-642-2902. Prices starting at $75.00, call for info. (11/14)

# CLASSIFIEDS

## Horse Equipment

1980 Morgan Horse trailer, good condition, sound bottom, no divider, storage space in front $2000. New Idea Manure spreader with book, ground driven, very good shape been kept under cover. Set of new D Harnesses, used 3 time, 2 new bridles, no bits. 3 collars, pair new blankets, set of wool blankets, other blankets. Collar pads, back pads, other stuff. 2 sets shafts under cover $200 a piece. 802-295-2910 (10/14)

6 wall mount horse hay feeders $25 each 802-263-9393 (10/14)

Wooden halflingers cart custom made, motorcycle wheels $400. Horse jog cart $100. Metal framed small horse cart $200. Antique wooden pony cart for about a 12H pony $300. 4 western saddles 14", 15", and 16" $100 each. 603-756-4348 (11/14)

## Sheep

4 year old Ewe Romery x with ram lamb 5 mt. Tunnis x $200 pair. 802-728-6077 (9/14)

Katahdin Lambs for Sale; Registered Katahdin Ewe and Ram Lambs for Sale: Excellent for breeding. Born March 2014. Variety of colors. Healthy, antibiotic free, grass fed lambs raised o family farm. Reg Ewes and Rams-250.00 Ea. Still a few grade lambs that can be raised for meat-200.00. Call 802-928-4190 or email: katahdins@mill-pond-farm.com (9/14)

Sheep for Sale: Small spinning flock dispersal. Eleven Romneys,(wethers & ewes). Mostly gray with 3 whites. Coated year round. Coats can go with sheep. Great fleeces. One ewe won Champion Covered Colored Fleece in 2013 SAFF in Greenwich, NY. One or all available. Looking for good home. Best offer. Wells, VT 802-325-6210. (9/14)

North Country Cheviot breeding ewes & rams for sale. Lambs, yearlings, & up. All purebred. Call or e-mail for information & prices. Pawlet, Vermont - Peter Helmetag 802.325.3131 or phelmetag@gmail.com (10/14)

Border Leicester and Romney Sheep are looking for a new home. Border Leicester yearling ram ($300), yearling ewe ($250) and ram lambs ($200). White 4 year old Romney ram ($350). White and natural colored Romney lambs ($200). These are show sheep with valuable fleeces and fabulous breed characteristics. All are registered and have pedigree papers. They have been handled a lot and are halter trained. Call with an email address for pictures. 802-233-2640 (10/14)

Sheep small flock Tunnis 4 ewes 1 ram. All 2 years old $1200. Call 802-728-6077 after 6 pm. (11/14)

## Sugaring Equipment

4x14 Small Brothers arch and pans- 4x10 raised flue pan, 4x4 syrup pan. Stainless steel stack with cover. $3000 obo, 1-802-254-2228 (9/14)

2'6"x8' Leader Evaporator SS pans & stacks, retined $2500. Sap storage containers 1- 50 barrel, 1 -20 barrel. Stock tanks different sizes (best offer) Assorted 5/16 sapline (memory line). 802-263-9393 (10/14)

4x14 Small Brothers arch and pans- 4x10 raised flue pan, 4x4 syrup pan. Stainless steel stack with cover. $3000 obo, 1-802-254-2228 (10/14)

Leader SS kitchen/finishing pan (12" x 20") with two-burner gas stove. Includes syrup thermometer, brass draw-off valve and two handles. Holds ten gallons. Cost $400 new. Price $275. Call Bob @ 802-885-3571 (11/14)

2'6"x8' Leader evaporator SS pans & stack, retined. $2500. Sap Storage containers 1-50 barrel, 1-20 barrel Stock tanks different sizes(best offer) Assorted5/16 sapline (memory line). 802-263-9393 (11/14)

## Swine

Piglets – male/casterated 802-282-3254 (10/14)

Piglets for sale. Ready now and more later. 802-282-3254 (11/14)

## Wanted

Hay Field Wanted To Rent: We are looking to rent a field(s) for haying in the Franklin County or surrounding area (ie: Georgia, Milton, Fairfield, St. Albans, Fairfax, Swanton, etc.) Call 802-782-8833. (9/14)

Need someone to spray paint/tar a dairy barn room in Chittenden County. (802) 238-5781. (9/14)

Dump body with hoist complete to fit 1971 chevy 1 ton. 603-272-4903 (10/14)

Dairy cattle, heifers, beef, bulls, steers, sheep and goats. 413-441-3085 (10/14)

## Vermont Vegetable and Berry News

*continued from page 10*

(Argyle NY) It's been a good growing season for the most part but irrigation was vital in between the rain storms. We got hail about a month ago which damaged the greens and put holes in onion plants but it wasn't too bad (like other times!). Onion crop has been looking good with many curing in the field; we had lower N fertility this summer which seems to have helped them go down sooner and be easier and healthier for dry down. Squash has a lot of powdery mildew but keeping it under control with stylet oil and Kaligreen. No late blight yet and have been doing preventative sprays weekly with Copper and Serenade. Flea beetles dissipated but maybe not for good, as arugula continues to be a good crop; we will continue with the Biothrips netting which has worked fantastic. Potatoes are mostly down as leafhoppers were a challenge; Pyganic helped to a degree to reduce the damage but we will note the varieties that were not as susceptible. Some winter tunnel crops are seeded in greenhouse, like chard and kale and onions (Bridger) plus the onion sets are being ordered now for November planting. We got strawberry Chandler tips from Canada in the first week of August and they will be planted out as plugs very soon. Hoping for a good sweet potato crop after running electric fence around them to control the deer. Days getting shorter, solar panels tipped more, and we hope for more sleep though not ready for cooler temps!

## Update From The UVM Plant Diagnostic Clinic

*By Ann Hazelrigg*

**Tomato:** Late blight is pretty much statewide. Keep plants protected if you want tomatoes into the fall.

**Potato:** Late blight also reported but it seems more prevalent on tomato. Diagnosed 'pinkeye' of potato with help from Dr. Steve Johnson at UMaine on fingerlings. Pinkeye derives its name from the pink and somewhat raised areas around and between the eyes on the surface of the periderm, especially on the bud (apical) end of the tuber. It is a 'periderm disorder' and is related to current season growing conditions associated with excessive moisture and high soil temperatures leading to cell damage and death of both the natural tuber periderm and the underlying cells. It is not seed borne. Cut tissue fluoresces under black lights so pull all those old black lights out from the 70s to check for this disorder! See pictures and more here. http://vegetablemdonline.ppath.cornell.edu/NewsArticles/Pinkeye%20of%20Potato%20in%202011.pdf. If you are only seeing damage on potato leaf edges, rather than in the middle part of the upper foliage, it may just be early blight and hopper damage.

**Eggplant:** Verticillium wilt prevalent causing scorch, wilt and death.
http://ohioline.osu.edu/hyg-fact/3000/3122.html.
This also affects tomato, potato and pepper. Most tomatoes are bred for resistance to this disease (VF resistance) but heirlooms would likely be susceptible.

**Cucurbits:** Downy mildew diagnosed in Bradford. Keep plants protected to keep them safe until harvest. This disease does not affect the fruit per se, but the loss of foliage will prevent ripening/harvest. Symptoms are confined to the leaves and their appearance varies widely among cucurbit species. On most species, lesions are first visible on the upper leaf surface as small, irregular to angular, slightly yellow areas. Symptoms appear first on older leaves and progress to younger leaves as they expand. When conditions (leaf wetness and humidity) favor sporulation, the production of fruiting bodies (sporangia) on the

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## Vermont Vegetable and Berry News

*continued from page 14*

lower leaf surface gives the undersides of the lesions a downy appearance, varying in color from light gray to deep purple. Lesions can coalesce and result in large areas of dead tissue which exposes the fruit to sunscald. Extensive defoliation can occur when conditions are favorable. For more info and pictures. http://extension.umass.edu/vegetable/diseases/cucurbit-downy-mildew

**Scab** diagnosed on winter squash. Look for holes/indentations in fruit with green velvety spores. https://extension.umass.edu/vegetable/diseases/cucurbit-scab

**Plectosporium blight** has not come into the lab but scout your fields for this disease because it is out there! https://extension.umass.edu/vegetable/diseases/plectosporium-blight

It is easy to diagnose on the petioles causing diamond shaped white lesions. The petioles become very brittle.

**Brassicas:** Black rot diagnosed in kale. No visible symptoms in leaves but very obvious in stems. https://extension.umass.edu/vegetable/articles/black-rot-brassica

For more info on fall diseases of brassicas and pumpkin/winter squash harvest and storage go to the latest UMASS veg notes. https://extension.umass.edu/vegetable/sites/vegetable/files/newsletters/August%2028%202014%20Vegetable%20Notes.pdf


Vermont Agricultural Producers and AG Industry Service Providers*

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Wed, Nov 12th 8:30 - 4pm
Yankee Farm Credit 52 Farm Vu Drive, White River Jct., VT

**Cost:** $30 Includes follow up.

**RSVP:** by Nov. 1, 2014
to Louise Waterman VT Agency of Agriculture 802-828-6900
or Louise.Waterman@state.vt.us. Please indicate location.

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- Complete or fine tune a farm business organizational chart, performance review worksheets with/on employees as well as written job descriptions and job protocols.
- Continue with their individual action plan to address HR management concerns on the farm through program follow-up.

*Space is limited on a first come first serve basis. Ag Industry Service Providers must bring an Ag producer. Please make payment to VT Agency of Agriculture. Mail to Louise Waterman, 16 State Street, Montpelier, VT 05620-2901.

**Hire** the right employees • **Improve** communication • increase **Productivity** and **Retain** a skilled work force

This training is offered in collaboration with: VT Agency of Agriculture, Food & Markets, Farm Credit East consultants and Vermont Farm Bureau

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# Sunflowers Crops Are Emerging Source of Renewable Energy

*By Rachel Carter,*
*Vermont Sustainable Jobs Fund*

Sunflowers are grown on several Vermont farms and then harvested for their oilseeds, which are then converted to biodiesel and livestock feed. Sunflower or oilseed biodiesel helps farmers lower fuel and feed costs, explore feed and fertilizer co-products, be more self-sufficient, and rely less of fossil fuels.

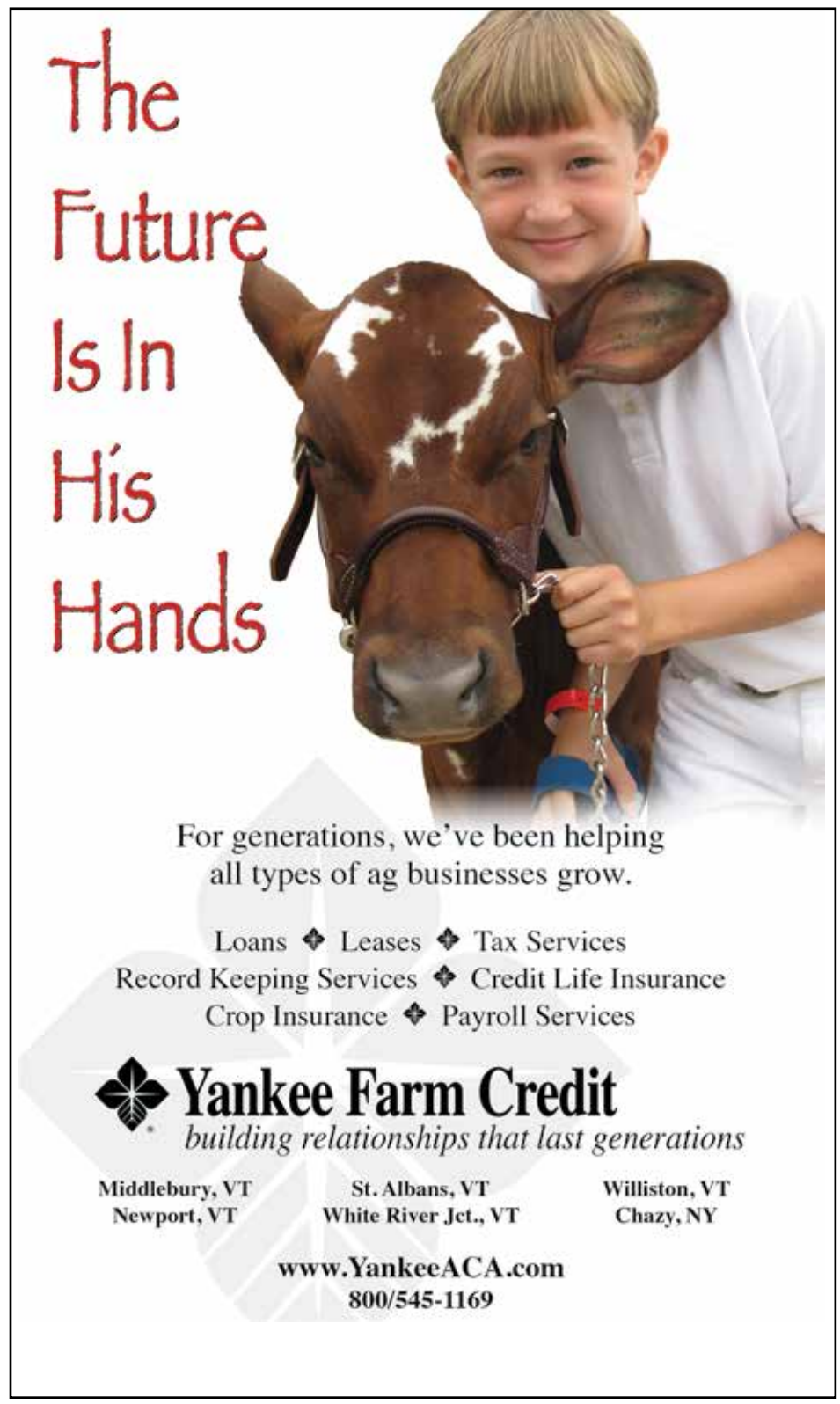
State Line Biofuel Farm in Shaftsbury and Ekolott Farm in Newbury are growing a combined 30 acres of sunflowers for Green Mountain Power. Once the sunflowers wilt this fall, they will be harvested, dried, and pressed. The raw oil will be converted into biodiesel, or B100 and the nutrient rich meal is then fed to farm animals. The fuel will be used in Green Mountain Power's vehicle fleet and to help heat buildings. Depending on the crops' success, the cost of fuel to Green Mountain Power could be up to one dollar less than current B100 prices.

"Projects like this really help support Vermont farmers, plus it's beautiful to see the fields of sunflowers and even more beautiful to realize it will provide a clean and local power source," says John Williamson of State Line Farm Biofuels.

Over the years, State Line Biofuel Farm and Ekolott Farm have been working closely with UVM Extension for technical research, analysis, and support, and the Vermont Bioenergy Initiative for infrastructure development to increase their energy self-sufficiency and develop financially sustainable oilseed-to-biodiesel processing business models.

"Several pioneering farmers in Vermont now have the necessary infrastructure to produce sustainable biodiesel," notes Chris Callahan, UVM Extension Agricultural Engineer. "This is a unique model: local production for local use. The partnership with Green Mountain Power means more gallons will be made which means lower cost for everyone."

Green Mountain Power President and CEO Mary Powell states, "the goal is for local biodiesel production to both shave fuel costs for our customers while helping to develop new markets for locally produced liquid fuels. We see this benefitting local farms and customers as we work together to provide more clean cost-effective and reliable power."

The Vermont Bioenergy Initiative partners with UVM Extension to support research, technical assistance, and infrastructure development in emerging areas of bioenergy and coordinates with the Vermont Farm to Plate Initiative to support energy crops grown alongside food production.

More information at www.VermontBioenergy.com.