Low lignin alfalfa trial
Jerry Cherney, Cornell Forage Specialist planted a trial at Curtin Dairy on April 30th, 2015. The objective is to evaluate the performance (yield and quality) of one of the new low lignin alfalfa varieties compared with a standard alfalfa variety when planted with 10 different grasses 1 tall fescue, 2 festuloliums, 3 meadow fescues, and 4 orchardgrass varieties. The trial was cut 3 times this season. Jerry will share the first season’s results at the 2016 Oneida County Crop Congress at Whites Farm Supply on January 6th.

(you can view the planting map on pages 12 & 13)
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<td>planting map from Alfalfa Trial (cover photo)</td>
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<td>16-24</td>
<td>Crop Shorts, Best Picks from our local seedsmen</td>
</tr>
</tbody>
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Upcoming Events

**Annie’s Project level 2, “Managing for Today and Tomorrow”**
will be offered at CCE Oneida County beginning on Wed. March 2nd and running 5 consecutive Wednesdays from 5:30 to 9pm
To register or for additional information please call Bonnie at 736-3394 ext 104 OR bsc33@cornell.edu
This course will also be offered at several locations across NY state this Fall/Winter.
For more information on these dates and locations please go to www.cceoneida.com/agriculture/anniesproject

4-H Tack & Equipment Auction **Nov 21st**, at the Verona Fire Hall. Preview at noon, auction starts at 1pm
For more information call Michelle at 736-3394 ext 122

**Tile Drainage Workshop**
**Wednesday Dec 9th—-10am to 3pm**
American Legion, 8083 Rt 20 Sangerfield
$13 includes lunch, Pre-registration is required by Dec 3rd
CCA Credits available
By calling Linda at 736-3394 ext 124 or LW343@cornell.edu

Save the Date: Oneida County Crop Congress
**Wednesday January 6th** Whites Farm Supply 962 Rt 12, Waterville
Pre-register by Dec 30th Liz or 841-4181
estimated NYS 2.25 DEC credits and estimated 3.75 CCA credits

**Crop congress Madison County**
**Wednesday, March 16th 2016**
Empire Tractor, 2893 Rte 20, East Cazenovia, NY
Lunch provided by Empire Tractor,
Preregister by calling 315-655-8146 by March 11th.
NYS DEC credits & CCA credits will be available

“Cornell Cooperative Extension is an employer and educator recognized for valuing AA/EEO, Protected Veterans, and Individuals with Disabilities and provides equal program and employment opportunities”
Doing the right thing in the right order matters. When undertaking the hiring of a new employee or reviewing protocol for established employees, let the NYS Department of Labor provide that overview.

Christina Sanchez, Labor Liaison, from the NYS Labor Department will share the required form filings through QA and poster hanging. Bonnie Collins, Resource Farm Business Management Educators, will provide some guidance on how to use with the online Federal and State employer sites. Come and join the conversation about which tasks within your responsibility of an employer are critical success factors and see how you can mitigate your risk for labor management.

This informational sessions will be held in Madison County CCE office on December 1, 2015, from 7-9 PM and the Oneida County CCE office on December 2, 2015, from 7-9 PM. The sessions are free, but registration would be greatly appreciated for the materials that will be available from the NYS Department of Labor and will include the required Labor Law Posters that need to be displayed in your place of business.

To register or for more information, Please contact Bonnie Collins in Oneida County at 315/736-3394 ext. 104 or email bsc33@cornell.edu or Katherine Brosnan in Madison County at 315/684-3001 ext. 100 or email kmb279@cornell.edu

New York State’s minimum wage will increase on December 31, to $9.00/hr. Don’t be caught off-guard

**Winter Shop Meetings Return:**

**Wednesday November 18**\(^{th}\), 2015: 12-2pm  
at Vaill Brothers Farm; 4549 Rt 26 in Vernon

**Wednesday December 16**\(^{th}\), 2015: 12-2pm  
at Jim McConnells Farm; 7874 Maxwell Rd. in Clinton

**Wednesday January 13**\(^{th}\), 2016: 12-2pm  
at Richardson Farms, 5959 Skinner Rd. Vernon Center

**Raw Milk Workshop & Farm Visits, Nov 13 & 14**

SUNY Cobleskill, in cooperation with NY State Ag & Markets and Cornell Quality Milk Productions Services is pleased to offer the 1st educational opportunity in NYS to promote best milk practices when producing raw milk products. **Registration deadline is Nov 2nd**

http://www.cceoneida.com/events/raw-milk-workshop  
or 518-255-5598
The first of October kicked off the latest efforts by the Food and Drug Administration to decrease the incidence of antibiotic resistance in human medicine. The intent of the Veterinary Feed Directive ruling is to slowly introduce changes that address public health concerns, while assuring animal health needs are met. The concern over antibiotic resistance in the human medical arena has been widely publicized for over a decade. The FDA is looking to curb the use of antibiotics in food producing animals in an effort to moderate the development of future super bugs. This does not mean that dairy and livestock producers cannot use antibiotics to effectively treat a sick animal, it is aimed at eliminating the use of antibiotics for production purposes, such as increasing rate of gain or improving feed efficiencies. Producers wanting to use certain medicines designated as VFD drugs will now be required to obtain a VFD order from their licensed veterinarian. Incorporating additional veterinary oversight is critical to the success of this approach.

*Current VFD Drugs Affected*: Initially there are only a handful of drugs classified as VFD drugs that will require a VFD order from the veterinarian. It is expected however, that by January 2017 many over the counter antibiotics will be newly classified as VFD drugs and therefore require the signed order by your veterinarian. Keep in mind the VFD ruling applies to antibiotics administered in or on livestock feed or in drinking water. Current VFD drugs that pertain to cattle include: Tilmicosin—used for the control of BRD in cattle and SRD in swine. Avilamycin and Florfenicol, antibiotics used in swine also fall under this classification.

The VFD ruling does not affect the use of ionophores, such as monensin, nor does it apply to the use of bacitracin. Additionally, this ruling does not pertain to parasite control agents like Fenbendazole or Ivermectin; and a class of drugs known as Beta Agonists that includes Ractopamine and Zilpaterol.

*What to watch For*: As mentioned previously, there will be drugs that change in classification. Typical over the counter drugs that once required a prescription will be deemed VFD drugs and require a written VFD order. Dairy and livestock producers can expect to see Neomycin, Streptomycin and Lincomycin fall under this VFD drug title by 2017. This new regulation carries with it extensions to the “paper trail”. All VFD orders must be retained by the producer and veterinarian for two years. Consult your veterinarian for further details on how or when the VFD ruling may affect your animal care practices.
Ag Energy Enterprise Tour Well Received!
Part 2 (Continued from Oct. 2015 Farm Flash)
By Mary Wrege

The afternoon of our warm and sunny day-long tour on Friday, September 18, 2015 highlighted two more stops to learn of businesses and new energy technologies and how they are shaping our future in the Mohawk Valley region. The tour group was diverse and included farmers, landowners, engineers, college instructors and staff, planners and town officials, MV Edge representative, interested local residents and agriculture service professionals including a local veterinarian, federal officer and a reporter.

The third visit was to **Grassy Cow Dairy in Remsen.** Here we visited with Leon and Angela Atwell, just as they were wrapping up their cheese curd making for the day in their newly opened creamery! They treated us to the excellent freshly made squeaky curd! Every Friday is cheese curd making day on the farm! This local producer, with a seasonally-grazed dairy herd, is able to utilize renewable solar thermal hot-water technology to clean milking system lines and heat water for their operation. The solar thermal system, installed during a very cold and blustery week in March 2015, consists of 10 collectors, with a surface area of 270.2 square feet and with a tilt-angle of approximately 30+ degrees, on the south-facing barn roof. The annual production of heat produced is about 52,000 Million BTUs, with about 16,560 kWh of electricity saved and with an estimated electrical savings of $2,815.00. (These numbers were established from their hot water use prior to the opening of the creamery in April.) The panels are plumbed to a controlling temperature unit that regulates the flow of glycol being actively pumped through the copper tubes into a solar water tank. The heat is transferred from the heated coils to the surrounding water in the tank. It is the heated water that is taken off and then used for line cleaning etc. The cooled glycol liquid in the coils, is then pumped back to the roof where it circulated through the panels absorbing heat to start the process again. The creamery is using a lot more hot water now than they were 12 months ago. There are savings, but it is too early to tell the difference. The Atwells run a 140 cow, seasonally grazed dairy. They are exceptional resourceful farmers who take particular pride in securing cow comfort, and to their scheduled grazing rotations. Not only are they sharp farmers, they are darn good cheese makers! This welcoming couple is very fortunate of have some help in the cheese room from both of their moms! We learned some general aspects of the finer points of curd making. One was the addition of rennet. This is an enzyme that converts milk protein (casein) from a soluble to an insoluble material, causing the milk to gel (forming a clean break). It will only work well in acidified milk. The gelling process must be undisturbed to get a clean break. This is what gives the curd the qualities of “squeakiness” when you take a bite! We all enjoyed the fresh curd samples and were eager to buy some specialty flavors.
The final tour stop for the day was to **Finndale Farms in Holland Patent.** Here we were hosted by another great farm family. Debbie shared an overview of this expanding and changing modern dairy operation while Mom Artie Finn welcomed us with ice cream treats and beverages as we listened. We toured the calf barn, learned of the importance of a robust calf health, nutrition and tailored management system that is essential for good quality future heifer and cow health. We also viewed their solar thermal system that was installed last winter/spring for their milking operation. Fourteen solar panels (378.3 sq ft) were secured to the south-facing roof over the bulk tank holding area while two solar thermal tanks were rigged over the laundry area in the utility room. This system was designed for their business of milking 800+ cows 3 times per day. This installed system can produce 80.191 Million BTUs and save about 25,538.7 kWh translating to about $2,554.00 annual savings. Finns are planning to install solar thermal panels to heat water dedicated for a planned calf barn expansion. We viewed the afternoon milking operation and were impressed that the bulk of the machinery and noise levels were housed below the actual milking parlor. A common theme for growing dairy farms is not enough space for the animals. Finns are no exception. We were joined by Travis Finn, Deb’s husband, as we were entered the barn where the new expansion construction was taking place. Like Atwells, attention to cow comfort is key to Finns herd management. To make more room for cows in order to alleviate overcrowding, a new well lighted, comfortable and well ventilated expanded home will be ready by the end of November. It boasts new LED lighting fixtures as well as water mattresses. Finns expect higher production from the cows with greater cow comfort and less stress.

Overall, we had a great response and a day that was informative for all of us in many ways. All the attendees were impressed with the high level of sophistication of our agricultural businesses here in the Mohawk Valley. A huge thank-you to those that attended and an even greater thank-you for our hosts at each tour stop!
The typical engine block heater takes just 1 to 2 hours to raise a tractor engine to temperature for starting. A simple 24-hour clock timer can automatically turn the heater on at the desired time. The energy savings from running the engine block heater unnecessarily will usually pay for the clock timer in 1 to 3 months.

I used a Tractor Heater Timer Calculator that showed energy savings, yearly cost estimate savings and estimated payback. (Check your utility bill to see what your electric rate is shown as $/kWh. My personal kWh rate is approx. $.12-$1.4)

The results showed:

\* = Required Fields

\* Number of Heaters:

\* Wattage of Each Heater:

\* Hours Per Day:

\* Average Electric Rate ($):

Estimated Energy Savings:

Estimated Annual Savings:

Estimated Cost of Timers:

Estimated Payback:

Engine Block Heater

Diesel engines can be difficult to start in cold weather. To improve low temperature starting, engine block heaters can be installed to warm engines via the engine coolant. If block heaters are not standard with a particular engine, after-market block heaters are available. A block heater usually takes only 1 to 2 hours to warm an engine for starting. However, many operators will leave the heater plugged in whenever the tractor is not in use or plug in the heater in the evening for use the next morning.
Cost of Operating

A 1000-watt engine heater that runs 10 hours per day (overnight typically) from late November through mid March will use about $90 in electricity. A clock timer can save money on your electric bill by activating the engine block heater two hours before it's normally used, saving over $70 in electricity per year. For 120-volt block heaters of 1800 watts or less, plug in timers (often used for pools) are available that cost about $20. For block heaters over 1800-watts or heaters that operate on 240-volts, timers will cost $40 to $60. In both cases the payback is less than one season. Timers are available at most hardware stores and building centers. Timers should be outdoor or weatherproof rated and installed on properly grounded electrical circuits.

Approximate Yearly Operation Cost for Different Wattage Engine Block Heaters
(assuming cost of $0.12061/kWh)

<table>
<thead>
<tr>
<th>Heater Wattage</th>
<th>Cost for 10 hour/day</th>
<th>Cost for 2 hours/day</th>
<th>Savings/year</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>$48.25</td>
<td>$9.65</td>
<td>$38.60</td>
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<tr>
<td>600</td>
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</tr>
<tr>
<td>1500</td>
<td>$180.92</td>
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</tbody>
</table>

CHOOSING THE RIGHT TIMER

The cost to operate an engine block heater is actually quite minimal if done correctly. Using a plug-in timer is an easy and inexpensive way to optimize heater use. To ensure top performance look for an engine block heater timer with the following features:

- Outdoor-rated or cold weather-resistant
- A thermostat that turns off the heater if the ambient air temperature is warmer than a pre-set temperature
- UL-listed and rated for 15 amps or greater (or as needed for the heater)

References: http://www.wisconsinpublicservice.com/business/farm_tractor.aspx
Getting started on an estate plan is one of the hardest things to do. Realizing that it’s time to do it, how to do it, and meeting all those decisions is overwhelming. However, breaking it down, developing a strategy, and asking for guidance can meet this challenge. The emotion side of estate planning can be overwhelming. Having a conversation about life and death is something we want to avoid. However, by not planning, you can lose much of your fortune during the inheritance process.

Let’s consider the following hurdles: communicating with those the plan will effect, writing your objectives for the plan, gathering the information required, seek a professional advisor, and reviewing the plan when appropriate.

While family members don’t need to know the nuts and bolts of the plan, they should know the conversation is taking place. This may prepare family members affected, that conversation will be taking place that could include their thoughts, desires, and concerns as the process unfolds. For example, choosing one family member over another as executor or trustee could be a source of conflict, and perhaps an attorney might be a better alternative.

You may have special situations that warrant estate planning, which has nothing to do with the health of your bank account. Such as children from a prior marriage, substantial debt, creditor protection issues, special needs children, transfer of business control, or irresponsible heirs. The need to review and writing your goals and objectives is the beginning of the estate planning process to identity what is unique and important to you. If you do not follow this process then you will never going to get a document based on what you want or a plan that will meet your needs.

Next gather financial business and family background information necessary to analysis the size of your expected estate tax costs, the liquidity and degree of risk associates with your current investments, and for determining how you should progress from your current status to achieving your financial goals.

The assembling of financial data should include in detail; ownership, current value, and any additional information you can obtain, such as serial numbers and CUSIP number if available. Also be sure to organize legal records, such as Deeds, contracts, partnership agreements, and stock certificates. Making copies of all these records and placing in a three-ring binder to bring to your initial meeting with an attorney.

**How do you choose an attorney?**

Choosing an attorney that specializes in the law pertaining to farm estate and transition planning is important. Ask individuals you respect for their opinions or experience they had with the attorneys they have worked with.
The Oneida-Herkimer-Madison BOCES hosted an Agriculture Summit at the end of September. The summit was a partnership between the Greater Mohawk Valley STEM Hub, the OHM BOCES, the Herkimer-Fulton-Hamilton-Otsego BOCES, the Madison-Oneida BOCES, the Hamilton-Fulton-Montgomery BOCES and the Otsego Northern Catskills BOCES.

A collaboration of agribusiness, agriculture, STEM, education and economic development, the Summit was a great opportunity to look into the future.

“Our region is at the threshold of economic transformation and this Summit challenged everyone to be part of this growth and revitalization, said Howard D. Mettelman, OHM BOCES district superintendent. “We are poised to expand educational opportunities for our students and align their skills with emerging technological and STEM-related careers.”

The summit was just the beginning of a partnership between schools and the community. OHM BOCES programs such as the School and Business Alliance (SABA) and the recently awarded grant, Creating Healthy Schools and Communities (CHSC), plan to build relationships with the agricultural community. The CHSC grant will build relationships with local vendors, grocers and farmers markets; increase healthy, affordable foods in targeted school communities; and educate community members and leaders on the benefits of adopting Complete Streets policies, plans and practices.

This collaboration will not only identify workforce demand, it will also engage students to prepare and pursue STEM career regional opportunities.

Based on the positive feedback from the Agriculture Summit, a Roundtable Discussion is being planned for November at the OHM BOCES. The purpose of the roundtable is to bring all of the local partners in the OHM BOCES region together again to get laser-focused on the goals and identify the STEM skills students need to be competitive in the ever-changing regional agribusiness, agritourism and agricultural workplace demands.
Over the last several months, CCE staff members from Oneida County and neighboring counties have had the opportunity to help shape a competitive proposal submitted to the government of New York State. If the Mohawk Valley is successful in competing to be one of three upstate regions whose proposal is selected, New York State will commit $500 million over five years to supplement significantly greater local public and private investments, with the promise of sparking an economic renaissance in the region.

The final proposal, which is available for download at mv500.com, identifies “Agribusiness” as one of three areas for strategic investment in economic development, along with “STEM-Intensive Industries” (STEM stands for Science, Tech, Engineering and Math, and these industries include nanotechnology and unmanned aerial vehicles), and “Tourism”.

According to the proposal as submitted:
“...the relevance of this sector [agribusiness] to our regional economy is dramatically increasing. Our industrial base has kept pace with dairy processing expansion and innovation, churning out products for local, downstate and global markets. We are well positioned to serve a burgeoning demand for sustainably produced craft foods and beverages to domestic and international markets. Our region’s proximity to major global consumer markets heralds a remarkable expansion that will grow jobs and enhance wealth in our communities.”

Besides recognizing the importance of agriculture and its allied business, the proposal identifies opportunities to grow agribusiness in synergy with the other two key strategic areas, STEM and Tourism. Woven throughout the proposal is recognition of the connection between agriculture and high tech, as with the development and increasing importance of precision agriculture technologies; as well as the obvious connections between agriculture and tourism, where an appreciation for working landscapes and an increasing desire to understand where our food comes can provide new opportunities for an industry that may have been undervalued in the past.

Whatever the outcome of the current funding competition, the Mohawk Valley will benefit from having identified and held up its agricultural resources as a unique strength that it is committed to preserving and building on for the future.
As discussed in a previous Farm Flash article, Oneida County is beginning the process of updating its Agriculture and Farmland Protection Plan, which was originally adopted in 2000. Cornell Cooperative Extension of Oneida County will be leading the process of developing the updated document, with input from county residents including farmers, farm landowners, municipal officials, business owners, and other interested residents.

There will be multiple opportunities for interested residents to participate in the process over approximately 12 months to ensure the development of the most thoughtful and effective Agricultural and Farmland Protection Plan. To be kept up to date on the process and participation opportunities, watch for more information here in Farm Flash, or contact: Jim Manning at Cornell Cooperative Extension Oneida County, ext. 129 or email: jpm277@cornell.edu.

The first steps in the process of developing the updated plan will focus on an inventory and analysis of the existing agricultural landscape. Agricultural resources are too often overlooked or undervalued. This process will provide an opportunity to highlight those resources and put them in the context of the contributions they make to the economy, the landscape and quality of life in our region.

The task force will be developing information from USDA Ag Census data; Ag District inventories; agricultural assessment data; real property records; tax rolls, economic analyses, and other available data sources. We’ll also be looking at the physical environment as it supports or may pose conflicts with the future potential of agricultural production, including existing and planned water, sewer, and road infrastructure and the related “sprawl points” where future growth outside cities is likely to be concentrated.

Finally, in this first phase we will be analyzing the existing policy environment, including the existing Farmland Protection Plan; existing municipal land use regulations; federal, state and county regulations affecting farmland; and economic development activities and their potential impact on agriculture (e.g., MV500).

While this is just the beginning of the plan update process, this effort will allow the final Plan to identify and incorporate recommendations of specific action items built on a solid foundation.
Planted 4-30-15

| A-1  | A-2  | No fertilizer applied | Yellow borders are fescue | Mixture?
<table>
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<tr>
<td>1</td>
<td>11</td>
<td>Bariane Tall fescue</td>
<td>A1 Pioneer 55H94 alfalfa</td>
<td>Alfalfa 15 lbs PLS/a of 55H94</td>
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<tr>
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<td>12</td>
<td>Perseus Festulolium</td>
<td>A2 Alforex Hi-Gest 360 alfalfa</td>
<td>Grass 4 lbs PLS/a of Prabus</td>
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<td>13</td>
<td>Fojtan Festulolium</td>
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<td>Same number of PLS for other grasses</td>
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<td>14</td>
<td>Pradus Meadow fescue</td>
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<td>Same number of PLS for Hi-Gest 360</td>
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<td>15</td>
<td>Liherold Meadow fescue</td>
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<td>16</td>
<td>BAR FpF32 Meadow fescue</td>
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<tr>
<td>10</td>
<td>20</td>
<td>DflF47 Orchardgrass</td>
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15 lbs/a alfalfa or 20 lbs/a grass
Crops Shorts (Best Picks)
By Jeff Miller

Performance Premixes, Andy Mower

Corn Grain
**P8542AMX** New for 2016, fully-integrated triple product in an 85 CRM with high yield potential and sound agronomics, as well as above average height and above average test weight. A great fit for Paris hill and northern Oneida county.

**P9644AM** This is a proven 96 CRM product with high yield potential and excellent agronomic traits. It is shorter in stature and is a good complement to P9690AM.

**P0216AM** This 102 CRM is well known in Oneida County as one of the Highest yielding Hybrids. Very good dry down, leader in drought tolerance and good test weight. Had a yield check this fall, in Verona, 265 Bushels @ 22% moisture.

Corn Silage

**P9188AMX** This is an ergonomically sound, high yield potential leader product, with above average fiber digestibly and starch. This hybrid has great dry down for silage, acts like a 85 CRM. Strong resistance to northern leaf blight.

**P9789AMXT** This is a high yielding silage 95 CRM, above average plant height with very good starch and excellent fiber digestibility. A real leader for Oneida Dairy farms.

**P0157AMX** This 102 CRM has the highest level of drought tolerance, with excellent starch and Milk per-acre production; strong fiber digestibility and milk per ton production.

Soybeans

**P13T99R** This is an agronomically sound, high yield potential 1.3 RM variety for earlier environments and or early harvest.

**P19T01R** This 1.9 RM is most well suited for all of Oneida county. This popular variety has proven itself for last few years as a leader with above average canopy width allows for use on wider rows and outstanding standability in case harvest is delayed.

**92Y12** A 2.0 RM maturity with great yield potential, a super companion with the P19T01R. a very competitive tolerance to white mold.

Alfalfa

**55H94** A leaf hopper resistance Variety with high yield potential and a dormancy of 5. Highly resistance to Bacterial wilt.

**55Q27** Excellent forage yield potential and quality. This product shows very good winterhardiness and an excellent disease resistance package. Works well for poorer drain soils.

**55V50** Quick recovery and excellent winterhardiness characterize this widely adapted, high yield potential variety with excellent pest resistance for most North American Environments. Highly suitable for 4-5 cut of high quality haylage production.
Wheat
25R46 A red Wheat that is awned, high yielding with above average scab resistance and good test weight. A real popular wheat for Oneida county, finished in the top five in Cornell field trials. Oneida county Yield checks were over 85-100 bushels.
25R50 A new red wheat that is Awnless variety with very good scab resistance, Very suitable for winterkill prone areas.
25W31 A soft white wheat that is awned variety with outstanding yield potential, excellent test weight and very good scab tolerance.

FS Growmark, Mark Bailey

Corn Grain
FS36R47VT2P (86 RM) Short Season that yields with early 90RM hybrids. Fast Grain Drydown with Strong Stalks.
FS 46R26SS(VT2P) (96RM) Consistent Performer that offers Heavy Test Weight. Also available in Double Pro(VT2P) version for first year corn.

Corn Silage
FS 41R57SS (91RM) “NEW” Performance Leader. Superb Whole Plant Digestibility that Maximizes Milk Production.
FS 52R32VT3P (102RM) Handles “Tough Ground” that produces “Grain-Dense Feed”.

Soybeans
HS 13A11 (1.3 Maturity) Top-Yielding early season variety. Features excellent tolerance to White Mold & Very Consistent.
HS 20A12 (2.0 Maturity) Proven Performance. Solid White Mold Tolerance.
HS 21A44 (2.1 Maturity) Defensive Powerhouse. Strong emergence & standability.

Alfalfa
Mariner IV Outstanding Yields in challenging conditions. Handles variable soils due to Branching Roots.
Magnitude Combines Forage Yield & optimum Quality. Best used in well-drained soils.
430RR/PLH First Choice for Top-End Forage Quality. RR (Weed Free) & PLH resistance.

Wheat
FS 820 Proven Performer in NY. Offers Solid Test Wt. & Fully Awned.
FS 854 “New” variety that handles moderate Powdery Mildew & Stem Rust pressure. Fully Awned.
FS 850 “New” Smooth Head that is well rounded disease resistance.
**Corn Grain**

**TA 290 89 Day** - comes in conventional, roundup ready, & triple stacked. Excellent Dry Down and Test weight. Early Seed Vigor

**TA 333 -22 91 day** - comes in Roundup ready with Corn Bore. Tall Plant, Excellent Disease Pkg. Excellent Test Weight

**TA 451 95 day** - comes in Conventional, Roundup Ready and Triple Stacked. Excellent Stalk Strength, Likes High Population, Excellent Grain Quality

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**Corn Silage**

**TA370 92 day** - comes in conventional, roundup ready & triple stacked. Does very well in Poor soil., Response well to high population

**TA 486-13VPND 98 day** - Triple stacked. New Nutridense Technology. Great Forage Yield. Keep on Moderate to High Performance Ground

**TA 550-ND 105 day** - comes in conventional, roundup ready & triple stacked. Excellent Disease Pkg. Excellent Yield. Likes Population 28,000 - 34,000

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**Soybeans**

**TS 0959R2 - Group 0.9** - Excellent White Mold Tolerance, Medium Plant Height

**TS 1139R2 - Group 1.3** - Excellent White Mold Tolerance, Bushy Plant Excellent Emergence for NoTill

**TS 1759R2 - Group 1.7** - Great Stress Tolerance, Yield Leader

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**Alfalfa**

**Crave** - multi-leaf, high forage, excellent drought strength, fast recovery time after harvest and very tolerant on wheel traffic

**Renew** - Branch Root, excellent disease pkg., will produce high forage in poor and well drained soils

**Repel II** - potato leaf hopper resistance. Fall Dormancy of 4.0 |

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**Channel, Jack Litzelman**

**Corn grain**

**189-03VT2P** – Very high yielding 89 day hybrid, can get tall but stands with excellent grain quality.

**192-08VT2P** – 92 day hybrid with yield and disease tolerance.

**197-66VT2P** – 97 day standard. Well adapted to Central NY.

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**Corn for silage**

**192-09VT3P** – 92 day with big yields, digestibility and disease resistance.
197-68STX – 97 Day with strong NCLB tolerance. Channels #1 hybrid family.
203-44STX – 103 day outstanding silage hybrid performed well in previous Cornell Trials.

Soybeans
0906R2 – Strong white mold tolerance with exceptional yield in a 0.9 RM.
1808R2 – New in 2015 this high yielding 1.8RM will easily replace popular 1805R2.
2108R2 – Reports from Jefferson County of 78bu/a ave. yield across the field! Performs with tremendous emergence.

Alfalfa
RR440- Roundup Ready with Disease index of 30, fast recovery. Fall dormancy rating of 4 with excellent winterhardiness.

Chemgrow, Tom Brouillette

Corn Grain
Chemgro 5019D5Z 90 day early flowering, Duracade - multiple modes of action on insect trait control. Refuge in bag. Fast drying grain, Good test wt. Sister to 5011
Chemgro 5469RSX NEW 94 day SmartStax RIB – Det ear excels under higher plant populations. Very good stalks & roots. Fast dry down, Best placed on Higher Producing , with good fertility fields.
Chemgro 5939V3 99 day excellent grain quality & test weight. Early vigor with good test wt & dry down. Very good late season plant health.

Corn silage
Chemgro 5701 97 day conventional good no-till/ conventional tillage. Dry-down and quality NDFD / quantity tons
Chemgro 5011 90 day conventional Tall dual purpose .Girthy dry ear, stay green plant health.
Chemgro 5141RRN 91 Day Nutridense,High Quality Silage,Better Feed Efficiency. Fiber quality providing energy from the whole plant. Works well over a wide range of soils.

Soybeans
Chemgro 1948R2 New genuity RR2 yield line, Tall plant height with nice branching ability. Good white mold resistance and yield potential. Works well in all row widths.

Alfalfa
Chemgro 722 blend of good alfalfas
Mycogen, Art Graves

**Corn grain**

**2J238** – high yielding, 88 day hybrid. Widely adapted to all soil types and management styles. Refuge in the Bag with SmartStax traits

**2K395** – A healthy hybrid that has strong stalks and roots. Handles tougher, heavy soils- 95 day; Refuge in the Bag with SmartStax traits

**2V357** – Best yielding 95 day hybrid. Needs to be on your best soils with good fertility. Refuge in the Bag with SmartStax traits

**Corn silage**

**F2F379** – 95 day BMR, Refuge in the Bag with SmartStax traits, handles heavy soils well. Consistent ears with good tip fill.

**F2F499** – 99 day BMR, High yielding with excellent starch levels and starch digestibility. The most digestible BMR available; Consistent performer with good disease tolerance. Refuge in the Bag with SmartStax traits

**TMF2Q419** – A highly digestible non-BMR hybrid. Excels on Heavy soils. High yield with a flex ear. 97 days; Refuge in the Bag with SmartStax traits

**Soybeans**

**5N182R2** – High yielding bean with excellent disease tolerance. Medium canopy can handle all row widths. Strong early vigor for no-till

**5N207R2** – Widely adapted to all soil types this variety is the top performer in early group 2. A great option for no-till and handles all row widths, with a strong disease tolerance package

**5N244R2** – Handles heavy soils well with a medium canopy for all row widths. A mid group 2 bean with exceptional yields and strong agronomics.

**Alfalfa**

**4H400 – Low Lignin Alfalfa** – First of its kind on the market, developed from elite alfalfa varieties the low-lignin technology gives extreme flexibility at harvest. Strong alfalfa agronomics with the highest quality potential. Gives 7 days of harvest flexibility without sacrificing quality. Increase yields without sacrificing quality. Good disease tolerance

**4A420** – High yielding Alfalfa with thin stems and multi-leaf expression. Best disease resistance with resistance to the new Aphanomyces race 2 fungus. A 1.6 winter hardiness score makes it an easy choice to survive NY winters – Consistent top performer in the Cornell Alfalfa trials

**4S417** – Hybrid Alfalfa – Consistent top performer in the Cornell Alfalfa trials. Hybrid vigor gives the best yield potential and fast regrowth. Handles marginal soils well.
**Corn Grain**

**3999VT2P/RIB  96 Day**  Excellent roots and good late season plant intactness. Flowers later, but has excellent heat and moisture tolerance. Works well in both hot and cool growing seasons. Excellent yield potential, especially in high yield environments, but excels in low yielding environments as well. Can be used as dual purpose for silage DATA PROVEN.

**3533VT2P/RIB  95 Day**  Excellent choice for light sandy droughty soils. Excellent heat stress tolerance. Responds to medium populations. Use caution on heavy, sticky, poorly drained soils. Can be used as dual purpose for silage DATA PROVEN.

**3499VT3P/RIB  94 Day**  Excellent stalks and roots, with good greensnap tolerance. Outstanding heat and moisture stress tolerance. Excellent continuous corn hybrid. Some ear flex, although great stress tolerance allows for higher planting populations. Can be used as dual purpose for silage DATA PROVEN.

**Corn Silage**

**4819AS3000/GT  103 Day**  Data Proven Hybrid. Tall white cob dual purpose great agronomics and adaptability. Very good disease tolerance and early seedling vigor. Choice for corn after corn and does well in No-Till Zone till systems.

**4099/RIB  99 Day**  Data Proven Hybrid. Tall race horse hybrid. Large girthy ear. Does well all soil types. Responds to high population and to Nitrogen need to keep N rates high for best results.

**3080AS5222-EZ  90 Day**  Top performing hybrid in this maturity in our trial the last 3 years. A plant me first hybrid with very good emergence and early season growth. Large girthy ears, consistent ear, bets at medium to high populations with fungicide application. Use caution on light sandy non-irrigated soils; likes moisture, avoid heavy poorly drained clay.

**Soybeans**

**WinPaks* – unique combination of 2 varieties, work to increase yield potential on tough acres while maintain yield on high production areas. Buffer effects of weather and soil variability on diseases and other stresses**

**R2C1770 WinPak* RM 1.7**  Widely adaptable does well both wide and narrow rows. Performs well in NY consistently. Wide or narrow rows very good emergence standability.

**R2C1750 WinPak* RM 1.7**  Widely adaptable does well both wide and narrow rows. Slightly better wide rows and on silt and sand, so do not plant narrow rows on clay.

**R2C1873 WinPak RM 1.8**  High Yield potential. Excellent product for variable soil types and environments. Very good white mold tolerance.
Alfalfa
Rebound 6.0  NY acreage of this variety increasing fast as operations try and neighbors see results. Excellent yield potential, rapid regrowth, excellent disease resistance.
RR Aphatron 2XT  Similar to Rebound 6.0 with benefit of Round Up ready trait and increased yield potential.
Maxi Graze  Suited for grazing and high traffic fields. Exceptional stand persistence, yield potential, winter hardiness and disease resistance. For grazing and mechanical harvest options. Excellent for alfalfa grass mix pastures.

Hubner, Joe Maloney Agronomist

Corn Grain
H6039RCSS: Attractive 89 RM product with solid top end yield performance as grain or silage. This product has excellent drought stress tolerance along with strong agronomic and health package, and is widely adapted to perform well across most soils and yield environments.
H5151RC3P: A Dual Purpose 95 RM consistent top performer across most soil types and yield environments with excellent top end yield potential and very good test weight. Has excellent agronomics, including strong stalks and roots, with a very good health package with particularly good tolerance to Northern Leaf Blight.
H6191RCSS: An outstanding 99 RM product that excels in yield performance a grain and silage hybrid. H6191RCSS has very good agronomics, including strong stalks and roots, and strong emergence and early vigor to get off to a strong start even in cooler spring soils. Very good health and drought tolerance make this a tough product to beat.

Corn Silage
H6037RCSS: Robust, white cob, 87 RM product that makes excellent silage quality as well as tonnage. With a strong agronomic package, including strong emergence, stalks and roots and very good drought tolerance, H6037RCSS is a great choice as a silage, high moisture corn, or snaplage product in NY. H6037RCSS also has very good health, particularly strong tolerance to Northern Corn leaf blight.
H6157RCSS: An outstanding 94 RM silage with exceptional yield potential for silage, high moisture corn, or snaplage. H6157RCSS delivers tremendous feed value with extremely high starch and IVSD-7 ratings. H6157RCSS has strong agronomics and health to perform well across most soils and yield environments.
H5222RC3P: A multi-year winner in NY and PA silage testing, producing silage with consistently high Milk/ton and Milk/Acre. H5222RC3P delivers high starch, that is highly digestible, with highly digestible fiber. With solid agronomics, H5222RC3P performs across most soil types, and yield environments. This is a “must have” silage product on most NY dairy farms.
Soybeans

**H09-15R2**: MG 0.9 medium bush variety with excellent yield potential. Has demonstrated strong emergence and standability. H09-15R2 has a solid defensive package with SCN resistance and Phytophthora resistance, along with excellent Brown Stem Rot resistance.

**H18-15R2**: MG 1.8 medium bush variety with strong yield performance across most soils and yield environments. Has excellent agronomics including strong emergence, standability, and stress tolerance, along with SCN tolerance and Phytophthora resistance, and very good Brown Stem Rot tolerance.

**H21-15R2**: MG 2.1 variety with excellent top end yield potential broadly adapted to perform well across most soil types and yield environments. H21-15R2 has SCN and Phytophthora resistance along with strong tolerance to White Mold and Brown Stem Rot. This variety has very strong agronomics including emergence, standability, and stress tolerance.

Alfalfa

**4R416**: Roundup Ready Alfalfa with excellent yield potential, excellent winter hardiness, excellent forage quality, fast re-growth, and an excellent defensive package.

**5R510**: Roundup Ready Alfalfa with excellent forage quality and yield, very good winter hardiness, very fast re-growth, and highly resistant to stem nematode.

Summit Conventional Alfalfa with very good yield potential, both tonnage and forage quality, very good winter hardiness and re-growth, and solid defensive traits.

Dekalb and Asgrow, Goyal Gaurav

Dekalb Corn Grain

**DKC 46-20 VT3PRIB**

DKC 46-20 RIB is a 96 RM widely adapted, versatile across soil types and yield environments, consistent and high performance product. It is a strong grain and silage product with excellent tolerance to northern corn leaf blight, test weight with good heat and drought tolerance.

**DKC 48-56 SSRIB**

DKC 48-56 RIB is a brand new product for 2016 season. Excellent performance in local pre-commercial trials compared to existing products proves that it can be a leader in late 90 relative maturity products range. This is a product with excellent test weight and can be widely positioned across geography.

**DKC 49-72 SSRIB**

DKC 49-72 RIB is a proven performer in northeast and has shown excellent yields in trials and commercial fields. With faster emergence from ground, exceptional test weight, and drydown, and good disease tolerance, it should be positioned in high performing soils.
**Dekalb Corn Silage**  
**DKC 45-51 SSRIB**  
DKC 45-51 RIB is a 95 RM silage proven product with proven year over year performance and widely adapted across diverse soils. With high starch, digestibility, yield, standability, and drydown, this product has been growers’ choice in this RM.  

**DKC 52-30 SSRIB**  
DKC 52-30 RIB is a 102 RM proven silage product in the northeast with good northern leaf blight disease tolerance and ability to perform in stressed acres and top end yield potential.  

**DKC 53-45 SSRIB**  
DKC 53-45 RIB is a 103 RM product that has shown consistent performance in grain and silage trials and commercial fields. With very good drought tolerance and drydown, it can be planted in all rotations and versatile yield environments.

**Asgrow Soybeans**  
**AG1636**  
AG1636 is a 1.6 RM brand new product and will be available for 2016 planting. It has shown better performance on yield and standability compared to existing products. With very good white mold and brown stem rot tolerance, this product should be a choice product for growers in this RM.  

**AG2035**  
AG2035 is a 2.0 RM product that has shown exceptional yields in trials and commercial grower fields for years. It is a defensive good standability soybean with exceptional white mold and brown stem rot tolerance and should be placed in all yield environments.  

**AG2535**  
AG2535 is a 2.5 RM product with good defensive characteristics. This product comes with very good standability and can be placed in both productive and stressed soils.

**Alfalfa**  
**DKA 40-16** is a conventional alfalfa variety with excellent forage yield and quality, excellent disease resistance ratings and is extremely winter hardy with very fast recovery after cutting.  

**DKA 40-51 RR Brand** is a Roundup Ready Alfalfa variety with very good forage yield quality. It is an all round product with very good winter hardiness and resistance to diseases including Aphanomyces Race 2.  

**DKA 44-16 RR Brand** is a fall dormancy 4.4 product with excellent yield potential, very good forage quality and winter survival ratings. This product is widely adapted for most yield environments and has broad disease and pest resistance package.
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References

Contact Information for Local Agency’s that support Agriculture
NYS Dept. of Environmental Conservation (DEC) 793-2554
Oneida County Soil & Water Conservation District 736-3334
Natural Resource Conservation Service 736-3316
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