



## Northern New York Agricultural Development Program

*Practical Research & Results for Clinton, Essex,  
Franklin, Jefferson, Lewis & St. Lawrence Counties*

For More Information:

Joe Giroux: 518-565-4730 ~ Jon Greenwood: 315-323-4814

Don Holman: 315-232-4185 ~ Sam Sherman: 518-962-4711

Kirby Selkirk: 518-497-603

[www.nnyagdev.org](http://www.nnyagdev.org)

### NNYADP Research & Outreach Benefits:

- 4,268 farms (1,139 dairies, 937 beef, 347 maple, 50 CSAs)
- 1.11 million acres of farmland
- \$52.9 million farm employee payroll
- \$595.7 million product market value
- 5 dairy processing plants
- 37+ community farmers markets
- 10+ high tunnel operations
- 619 farms selling direct to consumers
- 4 agricultural research farms
- 19 school ag education programs
- 15 FFA Chapters, 675 students

### New York State funding of NNYADP research and outreach returns multi-fold benefits to the NNY region and to the State's interests in:

- alternative fuel development
- "homegrown" New York products with local-global sales potential
- new enterprise/industry development
- local community food security
- cutting edge science-based region-specific research that
- improves production and business efficiencies
- reduces costs and generates revenues
- sustains and creates farm and agriculture-related jobs
- enhances science-based

### New York State Funding of NNYADP Research Returns Big on Investment

- \$61-90 million** Alfalfa snout beetle control research = farm savings over 3 years in forage not lost to ASB (plus farm income from resulting gain in milk production from feeding high quality alfalfa)
- \$4.02+ million** NNY soybean variety trial results support tenfold increase in regional soybean production since 2000; NNY exports of beans doubled 2010-2011; tremendous opportunity also exists to grow for food-grade processing markets in NNY
- \$7.5+ million** NNY small grain variety trials support opportunity to increase NNY heritage wheat production and processing revenues to meet 6,000-acre demand by regional processor
- \$510/acre** Cash crop & feed value gain from NNY alfalfa variety data
- 20%** NNY farm nutrient management research = reduction in phosphorus (P) use, cost savings to farms and environmental benefits to NNY region
- 28%** projected savings for N not needed after using NNY-calibrated soil nitrogen testing tool on 6 NNY farms
- \$1.3-1.75 million** projected annual nitrogen (N) fertilizer cost savings on 44,159 acres of 1st-year corn
- \$13 million** Impact of NNYADP data on corn hybrid planting decisions
- Up to 5,000/yr** # of dairy cows successfully treated or protected from Klebsiella mastitis by NNYADP research results
- \$5.5 million** NNYADP maple research supports opportunity to double industry revenue to \$10 million+ (26% increase in NNY taps 2005-2010)
- \$22.7 million** NNYADP cold climate grapes research supports potential of NNY's 22 vineyard wineries to reach year-7 income revenue
- \$75,000-\$100,000** Annual gross income potential for fruit, berry and vegetable production in NNY's 10 newest high tunnels

Based on NNYADP-funded research, every NNY farm has an opportunity to decrease fertilizer use and/or redistribute manure to fields with lower CSNT values to save each farm money and help mitigate N loss to the environment. Manure reallocation to low P and K fields, when feasible, could result in even greater savings in fertilizer costs.

— Dr. Quirine Ketterings, Cornell University Nutrient Management Spear Program





- Agriculture is Vital to Northern New York's Economy & Communities
- Region-Specific Agricultural Research Underpins Strong Crops, Livestock, Maple, Market Garden & Farm Business Management
- The Northern New York Agricultural Development Program is THE farmer-driven, practical applied research program for Northern NY
- 75-100 NNY farms participate in on-farm research projects each year

#### **NNYADP FARMER-ADVISORY COMMITTEE**

##### **CO-CHAIRS**

Jon Greenwood  
Canton  
315-323-4814

Joe Giroux  
Plattsburgh  
518-565-4739

#### **CLINTON COUNTY**

Willie Giroux  
Tony LaPierre  
Tom Remillard  
Jon Rulfs  
Dan Tetreault

#### **ESSEX COUNTY**

Shawn Gilliland  
Bernard Leerkes  
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Sam Sherman

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Dan Chambers  
David Fisher  
Robert Zufall  
Andy Weaber

### **NNYADP Farm Bioenergy Research**

is identifying the best grasses and optimum management for profitable locally-based energy enterprise. Funding will continue development of this new ag business sector. (Variety trials in Belleville, Madrid & Willsboro; Madrid-Waddington farm-to-community heating (apt. complex) demonstration)

### **NNYADP Dairy Industry Research**

has improved prevention protocols to combat dairy cow mastitis. Researchers estimate educating farmers about this can result in a \$1-5 million annual savings in treatment and replacement costs. Funding will continue this and other benefits to the NNY dairy industry.

### **NNYADP Maple Industry Research**

is critical to growing into the region's \$10 million/year industry potential. The 26% increase in the region's taps 2005-2010 added more than \$1.1 million in farm-gate revenue. Funding will extend sugarbush thinning and maple tap sanitation education to producers throughout NNY.

### **NNYADP Research into Whole Farm Nutrient Management**

and the complex regional mechanisms that influence interactions between fertilizer, manure, crops, soil, air and water have made tremendous strides toward reducing farm input costs and improving agricultural environmental stewardship practices without sacrificing crop yield. Funding is needed to evaluate the use of as potassium, sulfur, nitrogen and other soil nutrients, and to enhance manure management and natural resource protection.

### **NNYADP High Tunnel/Season-Extension Research**

has enhanced and grown the region's vegetable and berry production sectors supporting local foods interest, CSA (community supported agriculture) expansions, and farmers' markets. Funding will extend this to more farm businesses and consumers. (Trials at Willsboro and farms throughout NNY)

### **NNYADP Crop Variety Trial Research**

assists growers with critical decisions for the NNY production of corn grain (\$50.6 million annual value), corn silage (\$50 million annual value), soybeans (\$5.39 million annual value) & small grains that support healthy dairy and livestock production, cash crop sales, and the local crop supply needed by NNY processors selling flours, pancake mixes and other value-added products. Funding makes these trials possible. (On-farm trials and processors in Jefferson, St. Lawrence and Essex counties)

### **NNYADP's Alfalfa Snout Beetle Control Research**

produced a successful, cost-effective farmer-friendly biological control practice that protects a valuable forage crop. Funding will extend the value of the on-farm nematode rearing handbook to more alfalfa growers and dairy operations in NNY.

### **NNYADP Cold Climate Grapes Research**

is spurring the growth of new vineyards, wineries and agritourism enterprises. Funding will continue field trials that provide a firm foundation for the growth of this new industry for Northern NY.

### **NNYADP Crop Disease Research**

impacts existing problems and may simultaneously identify new issues, e.g., brown root rot, for attention in a timely manner. Funding is needed to reduce crop losses and develop practical solutions.

