



# Northern New York Agricultural Development Program

Clinton, Essex, Franklin,  
Jefferson, Lewis & St. Lawrence Counties

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

## New York State-Funded NNYADP Research Results Underpin Economic Impact and Environmental Stewardship



### Project

Impact Value

### Extending Successful Crop Pest Solution Regionwide

NNYADP-funded research has developed a farmer-friendly, inexpensive and effective biological method for managing Alfalfa Snout Beetle (ASB), which can destroy an entire crop in one season. Outreach is underway to make sure growers know how to implement the use of beetle-busting nematodes. The resulting savings over 3 years of forage not lost to ASB plus the farm income from the gain in milk production from feeding high quality alfalfa is estimated at . . .

**\$61-90 million**



### Soybean Variety Trials for NNY Growing Conditions

NNY on-farm soybean variety trials produce critical data for grower decision-making. Trial results have supported a tenfold increase in regional soybean production since 2000 and NNY exports of beans have more than doubled since 2010 with increasing global buying interest. The NNY soybean industry is currently valued at . . .

**\$5.39 million/yr**



### Corn Hybrid Variety Trials for Grain, Cash & Energy Markets

Corn grain variety trials on NNY farms support critical decision-making for growers producing corn as a feedstock for the dairy industry, as a cash crop, and for energy markets. The NNY corn grain industry is estimated to have an annual value of . . .

**\$50.6 million**



### Improving NNY Apple Orchard Management & Rootstocks

NY-grown apples are a perennial marketplace favorite. NNY growers manage 4,000 acres of apples grown in cooler and microclimate conditions. This production research supports the NNY apple industry with a farm gate value of . . .

**\$16 million**



### Cover Crops for Corn Silage Production

Current research evaluates how corn silage growers can use cover crops to reduce the use and cost of nitrogen (N) fertilizer, and enhance environmental stewardship. This research is expected to further reduce N use (28% reduction on 44,159 acres of 1st-year corn has a projected savings of \$1.3-\$1.75 million) through the use of NNY-calibrated soil N testing. The NNY corn silage industry has an estimated annual value of . . .

**\$50 million**



## Northern New York Agricultural Development Program Projects Serve:

- approximately 1,139 dairy farms, 937 beef farms, 346 maple operations, and 50 Community Supported Agriculture farms
- farmers managing 1.11 million acres of agricultural land in Northern New York
- workers receiving wages from a \$52.9 million farm employee payroll
- producers of \$595.7 million in agricultural products annually
- 619 farmers selling directly to consumers
- nearly a dozen high tunnel growers
- four agricultural research farms in Northern New York
- managers, vendors and consumers at more than 3 dozen community farmers markets
- 19 school ag education programs, 15 FFA Chapters, 675 students
- 75-100 NNY farms participating in projects each year
- local community food security supporters
- biomass producers and green energy users
- farm-based natural resource stewards

\* 2007 Census of Agriculture figures



*Agriculture drives Northern New York's economy & communities*

## The Northern New York Agricultural Development Program: Farmer-Driven, Practical Applied Research for NNY

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

*Based on NNYADP-funded research, every NNY farm has an opportunity to decrease fertilizer use and/or redistribute manure to save each farm money and help mitigate nitrogen (and other nutrient) loss to the environment.  
— Dr. Quirine Ketterings, Cornell University Nutrient Management Spear Program*



### Project

### Impact Value

#### Grass Biomass Production for NNY

NNYADP-funded field trials are evaluating opportunities to develop regional on-farm energy enterprises. Cornell University researchers are developing practices for optimizing grass biomass crop yield and combustion quality.

**New on-farm green energy crops income**

#### High Tunnel Strategies for Fall/Winter Greens Production

High tunnel production can significantly extend the marketing season and income for fresh market growers. This project builds on earlier NNYADP-funded trial results showing a wide range of gross income opportunities for late season greens valued at . . . **\$2.58/sq ft, \$12/lb.**

#### Increasing Yields in Field-Grown Vegetables

This NNYADP-funded research field-proves new ways to increase crop yields by 20% or more, creating income potential for approximately 285 NNY farms producing vegetables on more than 3,100 acres currently valued at \$4,700/acre **\$14.57 million+**

#### Breeding ASB-Resistant Alfalfa Varieties

Cornell researchers are making huge strides in the breeding of Alfalfa Snout Beetle-resistant alfalfa varieties to work in tandem with the new NNYADP-developed use of nematodes to control the destructive crop pest that plagues the dairy industry in nine counties. The cash crop and feed value gain of growing high quality alfalfa is **\$510/acre**

#### Evaluating Soil Test Phosphorus Opportunity

Developing an accurate means of reducing the amount of phosphorus (P) applied to crops will benefit farm income and the environment. This NNYADP-funded research builds on earlier NNY farm nutrient management project results to capitalize on the opportunity to reduce the use and cost of P fertilizer by **20% \$ saving**

### Additional NNYADP Projects in 2013 Will Evaluate Opportunities to:

- Control brown root rot • Increase maple sap yields
- Use group feeding systems for calves housed outdoors in NNY
- Precision-thin and irrigate NNY apple orchards
- Develop leek moth management practices
- Use the Adapt-N tool for reducing nitrogen fertilizer use/cost
- Apply the water quality benefits of tile drainage
- Utilize reduced tillage systems on vegetable fields
- Implement parasite management on NNY sheep & goat farms
- Grow winter forage small grains to help boost the dairy & livestock feed supply

### NNYADP FARMER-ADVISORY COMMITTEE

**CO-CHAIRS: Jon Greenwood, Canton, 315-323-4814; Joe Giroux, Plattsburgh, 518-565-4739**

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