



Improving Late Blight Management in Home Gardens

2014 to 2015

Late blight is a serious plant disease that affects both gardeners and farmers. Because infected plants produce huge quantities of spores that spread the disease, accurate disease identification and appropriate response are important for everyone in the community growing tomatoes or potatoes. We engaged Cornell Cooperative Extension Master Gardener Volunteer program coordinators to plan and present a series of five workshops for Master Gardener Volunteers across the state.

Information on Winter Injury for NYS Dept of Agriculture and Markets

2014

Extreme winter low temperatures in January and February 2014 caused winter injury to grapevine buds. In response, regional grape extension programs (Lake Erie, Finger Lakes, Hudson Valley, Northern NY) examined buds from over 200 vineyard blocks to characterize the extent of the injury. NYS Dept. of Ag and Markets asked us to assess the resulting crop reduction, to provide backup for a waiver to allow farm winery licences to purchase fruit out of state.

Enhancing the aroma of agricultural food products.

2013 to 2018

The sensory representation of the external chemical world in the brain is a translation of chemical features into patterns of brain activity. It is the nature these patterns—how that are established by stimulant patterns, how they vary in a population, and ultimately how they interact with other brain functions, e.g. emotions (joy) or behavior (buying wine)—that is the object of our research. We study aroma perception in order to provide information about food composition to producers that will allow them to produce likable, healthy and more profitable products.

Agriculture Economic Development Platform Discussion for Western and Finger Lakes New York Regions

2012

We are working to frame a regional discussion around Agriculture Economic Development vis-à-vis the NYS

Regional Economic Development Councils. CCE's Harvest NY initiative focuses on a region that intersects with 3 regional economic development councils.

Tile Drainage Field Day

2012

An on-farm field day was held to inform farmers of the benefits of subsurface tile drainage. The event was planned by three CCE regional and the local soil and water conservation districts. The topic of soil health was broad to cover multiple commodities.

Improving Crop Fertilization & Management

2012

Through conversations with farmers, I helped them to increase farm profitability by improving fertilizer use, reducing seeding rates, and selecting different plants for silage.

Group Care of Baby Calves - Changing the Paradigm

2011 to 2012

Group housing of calves with its attendant use of waste milk in a safe manner offers economical and biological advantages to producers. Previously held beliefs regarding disease risk have been changed with a new definition of proper ventilation and the advantages of more natural feeding methods and social interaction amongst baby calves.

Soybean TAg Teams for Dairies

2011 to 2012

Soybean acres continue to increase on the dairy farm as a way to decrease purchased soybean meal and other high priced protein sources. Soybeans are a new crop to many dairies, and education is needed on crop production practices and the principles of integrated pest management to maintain profitable yields. The Tactical Ag (TAg) Teams teaching model was utilized, and two dairy teams improved their soybean production skills utilizing a hands-on approach and using their own fields as outdoor classrooms.

Tractor Drawn Tile Plows With GPS Grade Control

2010 to 2011

Due to today's relatively favorable commodity prices, farmers are trying to increase yields by installing pattern drainage systems, which have been proven to be a long term investment to improve soil conditions and increase yields. The North West New York Dairy, Livestock, and Field Crops Team organized trials with tractor pulled tile plows and GPS control systems to evaluate their performance under WNY conditions.

Chesapeake Bay watershed Total Maximum Daily Load program

2010 to 2014

President Obama ordered the U.S. Environmental Protection Agency (EPA) to elevate efforts to dramatically improve Chesapeake Bay water quality by 2025 through the implementation and enforcement of a Total Maximum Daily Load (TMDL) program. The watershed states were asked to develop a Watershed Implementation Plan (WIP) and give target load reductions.

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