

## Current Projects - 2008

Name of Veg Working Group Member	Title of Research Trial	Location (s) (i.e. RAREC, Snyder, EARTH Ctr, Commercial Farm)	Comments
Jhilson Ortiz	Ethnic corn – Highland varieties from Mexico & South America	Farm Scott Ellis	Receiving the seeds from CGIAR/CIMMYT on April
Jerry Ghidiu	Management of Colorado potato beetle and potato leafhopper in white potatoes.	RAREC	
Jerry Ghidiu	Control of aphids in bell peppers	RAREC	
Jerry Ghidiu	Chemigation for control of European corn borer in drip irrigated bell peppers	RAREC	
Jerry Ghidiu	Control of diamondback moth larvae, imported cabbageworms and cabbage loopers in fall seeded cabbage	RAREC	
Michelle Casella	Rediscovering the NJ Tomato Project, Tomato Variety Evaluations with an Emphasis on Flavor	RAREC/SNYDER	Peter Nitzsche, Co-PI
Michelle Casella	Specialty Pumpkin Variety Trial	RAREC	
Michelle Casella	Trap Crop Study for Cucumber Beetle in Pumpkin with Blue Hubbard Squash	RAREC	Jerry Ghidiu, Co-PI
AJ Both	Effects of Duration of Temperature Perturbations during Flowering on Tomato Fruit	NJAES Research Greenhouses (growth chambers)	Harry Janes, Logan Logendra, and T.C. Lee, Co-PI's
Bill Tietjen	Comparison of Colored Pepper Cultivars	Snyder Farm	
Joe Heckman	Residual effects of shade tree leaf mulch on soil supply of N to sweet corn and rye	Snyder Farm	This project is a follow up to the pumpkin leaf mulch experiment that will soon appear in HortTechnology.

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Joe Heckman	Raw milk research and extension program	New Jersey	Relevance: When consumers drive past New Jersey farms to go out of state to purchase raw milk, they often also buy fruits, vegetables, meat, and eggs from the same farm. All New Jersey farmers have a stake in the raw milk issue.
Joe Heckman	Manganese deficiency symptoms in vegetable crops	Adelphia	Development of a photo data base of nutrient deficiencies in a wider number of vegetable crops.
Joe Heckman	Nutrient removal values for Christmas trees	New Jersey	Relevance: Many vegetable growers also produce Christmas trees. This data will help with nutrient management planning.
Joe Heckman	Hairy vetch as a mulch and N source for organic sweet corn production	Hort. Farm III	Preliminary unfunded research trial to evaluate feasibility.
Joe Heckman	Consumption of cull vegetables by chickens	On farm trial with poultry flock in my back yard	Explore market potential and ways pastured poultry may be integrated with vegetable production. Eggs from pastured chickens currently sell for \$5.00/doz.
Joe Heckman	Invited book chapter on Soil Fertility Management for Organic Agriculture	American Society Agronomy	Chapter will be comprehensive and will discuss vegetable crops
Joe Heckman	Tomato Taste Trial to Evaluate Salt Soil Amendment	Snyder Farm	Peter Nitzsche, Co-PI for this project.  Field trial conducted to evaluate the effect of sea salt treatment of soil on fruit quality and flavor of a modern tomato variety.
Jenny Carleo	Enhancing Farm Markets with Flowers		
Tom Orton	Processing Tomato Variety Trial	South NJ grower	In association with Violet Packing

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Tom Orton	Processing Tomato Breeding	So. NJ grower	In association with Violet Packing
Tom Orton	FM Tomato Breeding	RAREC	Wes Kline & Steve Garrison, Co-PI's
Tom Orton	Overwintering Onion Var	RAREC	Wes Kline, Co-PI
Tom Orton	Mother Stalk Asparagus	RAREC	2008 final year of trial
Tom Orton	White Asparagus	RAREC	To grower in 08
Tom Orton	Tomato Fruit Composition & Genetics	RAREC	Dan Ward, Co-PI's
Tom Orton	Vegetable Pre-Cut Packaging/Shelf Life, S-294	RAREC, FIC lab	In association with Sheppard Farms, Cedarville, NJ
Andy Wyenandt	Developing a fungicide resistance management guide for vegetable crops grown in the mid-Atlantic region	RAREC	NE-IPM Center funded multi-state (DE, MD, VA, PA) project in 2007 and 2008.
Andy Wyenandt & Kris Holmstrom	Determining host specificity of cucurbit downy mildew	RAREC & Snyder Farm	Part of a USDA funded multi-state project (2008-2009)
Andy Wyenandt & Wes Kline	Effects of production system and cultivar on the development of skin separation in bell pepper fruit	RAREC and 4 on-farm sites	Funded by NE-SARE partnership grants in 2006 and 2007
Andy Wyenandt & Wesley Kline	Evaluation of bell pepper cultivars and breeding lines for Phytophthora blight resistance and development of skin separation in fruit	RAREC and on-farm site	Annual project funded by seed industry
Andy Wyenandt	Evaluation of fungicides for control of the aerial phase of Phytophthora blight	RAREC	Annual project funded by industry

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Andy Wyenandt	Evaluation of fungicides for control of anthracnose fruit rot of bell pepper	RAREC	Annual project funded by industry
Andy Wyenandt	Evaluation of fungicides for the control of leaf spots and fruit rots in processing tomato	RAREC	Annual project funded by industry
Kris Holmstrom George Hamilton Joe Ingerson-Mahar	Investigating the Effects of Companion Plantings on Predation of European Corn Borer Eggs in Bell Peppers	Snyder Farm	
George Hamilton Joe Ingerson-Mahar Kris Holmstrom	Surveying for <i>Helicoverpa armigera</i> (old world bollworm) and <i>Spodoptera littoralis</i> (Egyptian cottonworm).	On-farm sites throughout NJ	Funded by CAPS
Mel Henninger	Early Generation Potatoes - 344 Seedlings not previously testing in NJ	RAREC	344 Seedlings after only one selection in Maine. Part of a study that includes USDA, NY, PA, NC, and FL
Mel Henninger	Singles Plots potato varieties Round whites & reds - 151 entries Russets - 56 entries Round whites -56 entries Specialties red, purple, yellow skin or flesh-24 Russets - 42 entries	RAREC RAREC Snyder Farm Snyder Farm Snyder Farm	These tests include entries from breeding programs in Maine, USDA-Beltsville, New York, Minnesota, Michigan, and USDA-Aberdeen, ID
Mel Henninger	Replication Potato Variety Trials Advanced Round Whites & Reds 72 entries Advanced Russets 8 entries Advanced Round Whites & Reds 39 entries Advanced Russets 14 entries	RAREC RAREC Snyder Farm Snyder Farm	In cooperation with University of Maine, Cornell University, USDA-Beltsville
Mel Henninger	Seedpiece spacing of newly name varieties: Beacon Chipper, Lehigh, Harley Blackwell	RAREC	
Mel Henninger &	Organic Potatoes 4 tr x 8rep with 6 varieties	RAREC	In cooperation with David Lee, Jack

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Andy Wyenandt			Rabin, Mike Marandola, and Kristin Smolenski
Mel Henninger & Michelle Casella	Cole Crops Variety Trial – 30 to 50 entries	Mainly at Snyder Farm some at RAREC	
Mel Henninger & Ed Dager	Grafting Tomatoes for disease control	Snyder Farm	Just a demonstration to see how to do it.
Mel Henninger & Rich VanVranken	Advanced Sweetpotato Varieties 12-15 entries	Anothony Melora Farm	In Cooperation with the National Sweetpotato Collaborators Trial, seedling from NC and LA.
Mel Henninger & Rich VanVranken	Seedling from the USDA Breeding Program – Charleston, SC	Anothony Melora Farm & at RAREC	Evalauting specialty Sweetpotatoes
Joseph Ingerson-Mahar	Early season migration of corn earworm	Buzby farm; Ken and Brian Porch farm; Gary Stecher farm	
Joseph Ingerson-Mahar	Seasonal activity of carrot weevil in fresh market and processing carrots	Ed Byrnes farm; Coleman’s farm, Flaims farm	
Joseph Ingerson-Mahar	Oviposition sites of carrot weevil in processing carrots and evaluating presence of egg parasitoids	Ed Byrnes farm; Coleman’s farm	
Joseph Ingerson-Mahar	Seasonal trapping for pepper weevil	Dennis Donio farm; Bob Muth farm	
Joseph Ingerson-Mahar and Kris Holmstrom	Pheromone trapping of fall armyworm	2 north Jersey farms and 2 south Jersey farms	
Ray Samulis	Growing Sweet Corn with Reduced Fertility	Snyder Farm	Funded by Special Local Needs Grant

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	Rates		
Ray Samulis	Investigation of the Effect of Light Exposure, Planting Patterns, and Spacing on Sweet Corn Yields	RAREC	Funded by the Burlington County Board of Agriculture
Bill Sciarappa	Ramapo Tomato and organic fertilizers	Cook Greenhouses	SEBS class research project
Bill Sciarappa	Ramapo Tomato Caging-Staking Demonstration	Rutgers Gardens	New Brunswick site
Bill Sciarappa	Ramapo tomato – commercial grower trials	Central NJ	Growth and taste comparisons
Bill Sciarappa	Ramapo tomato greenhouse phytonutrient trials	EcoComplex	Hydroponics & soil media
Bill Sciarappa	Ethnic specialty crops demonstration	Rutgers Gardens	Albert Ayeni, Co-PI
Win Cowgill	Pumpkin size and yield enhancement with Pristine fungicide	Snyder Farm	Co-PI's: Andy Wyenandt, Rebecca Magron, Dan Ward
Dan Ward, Andy Wyenandt and Wesley Kline	Comparison of different times of planting in high tunnels versus outside strawberry production	RAREC	The objective of this study is to determine if strawberries can be produced earlier in high tunnels for the early roadside market trade
Wesley Kline and Andy Wyenandt	Evaluation of drip tube placement for high tunnel tomato bag culture	RAREC	This is the second year of the study.
Wesley Kline	Determination of microbial load in surface water irrigation	South Jersey	
Wesley Kline and Andy Wyenandt	Evaluation of bell pepper cultivars for commercial production in South Jersey	RAREC and a growers field	
Wesley Kline	Preparing Growers to Meet Emerging Food Safety Standards	Across New Jersey	Funded through a FSMIP grant