



# Precision Agriculture Series



Photo credit: Lindsay France, Cornell URET

Learn what precision agriculture entails, the economics of using precision ag, and the preferred methodology and benefits. This free, 3-day event series will be presented by Dr. Ali Nafchi, Precision Ag Specialist of the CCE Cornell Vegetable Program and the CCE NWNY Dairy, Livestock, and Field Crops team. Topics for each day will be determined by the audience interests and questions. Pre-registration is required. See location listing for details.

### Introduction to Precision Agriculture

- Why should producers be interested in precision agriculture?
- Goals, key factors, information, technology, management

### Components of Precision Agriculture Equipment

- Key components, equipment, computer/controllers, sensors, GIS, GPS, remote sensing, satellite imagery, UAV's

### Agricultural management philosophy (PA perspective)

- What is zone management?
- Best management practices
- Soil and tillage management

### Soil electrical conductivity (EC) and ways to measure it

#### Precision soil sampling vs. grid sampling

- Soil EC: Veris vs. EM38, EC vs. soil texture, and EC vs. yield map

#### Site specific management/variable rate applications

- Variable depth tillage control, variable seeding rate, automatic section control, variable rate irrigation, and variable irrigation based on soil texture

### Map Principles

- Why is map-making important?
- Yield maps vs. prescription maps
- Importance of yield monitors, yield monitoring components, calibration and factors that effect on it



### Introduction to NDVI

- Characteristic of NDVI values
- NDVI estimation and photo analysis

### Economics of using precision agriculture Preferred methodology and benefits, evaluation



#### ERIE COUNTY

CCE Erie County, Dard Hunter Hall, 2nd floor  
 21 S Grove St, East Aurora, NY 14052  
 Wednesday, February 19  
 Wednesday, March 4  
 Wednesday, March 25  
 1:00 - 3:00 PM  
 To register: 716-652-5400 x176

#### GENESEE COUNTY

CCE Genesee County, Boyce Board Room  
 20 E Main St, Batavia, NY 14020  
 Thursday, February 20  
 Friday, March 6  
 Friday, March 27  
 10:00 AM - 12:00 PM  
 To register: 585-343-3040 x138

#### NIAGARA COUNTY

CCE Niagara County  
 4487 Lake Ave, Lockport, NY 14094  
 Tuesday, February 4  
 Tuesday, February 18  
 Thursday, March 5  
 10:00 AM - 12:00 PM  
 To register: 716-433-8839

#### SENECA COUNTY

Ovid Fire Hall  
 2136 Brown St, Ovid, NY 14521  
 Friday, February 7  
 Tuesday, March 3  
 Friday, April 3  
 1:00 - 3:00 PM

[Register online](#) or call 315-539-9251

#### STEUBEN COUNTY

Steuben County Office Building Annex  
 Conference Rooms A-B  
 20 East Morris St, Bath, NY 14810  
 Thursday, February 6  
 Thursday, March 26  
 Thursday, April 9  
 1:00 - 3:00 PM  
 To register: 607-664-2300