

# Utilizing UAV's (Drones) on Eastern NY Farms

**Monday, August 19<sup>th</sup>, 2019**

(rain date: August 20<sup>th</sup>)

**10:00am—12:00pm**

**American Legion Hall**

9509 Route 9

Chazy, NY 12921



ENYCHP specialists Jim Meyers and Mike Basedow will be hosting a demonstration and discussion of the use of low-cost unmanned aerial vehicles (drones) in crop management. In the first portion, Jim will discuss the basics of drone operation and uses including:

- Selecting a drone
- Federal regulations for operating
- Obtaining a pilot license
- Using automated flight control software for field mapping
- Uses of images for scouting
- Uses of 3D modeling for canopy measurements
- Uses of specialized cameras for mapping variability and plant health

Weather permitting, we will move to the orchard for the second half of our meeting for a live demonstration flight. Jim will be mapping orchard variability using his quad-copter drone, equipped with a Normalized Difference Vegetation Index (NDVI) camera. As Jim demonstrates the flight procedure, Mike will briefly discuss how we intend to utilize the imagery to develop future scouting protocols. Other forms of innovative farm tech will also be discussed. While orchard focused, we will discuss applications across agricultural commodities, and all farms are welcome!

**There is no fee to attend this workshop, however registration is required:**

<http://bit.ly/DronesinENY>

Cornell Cooperative Extension | Eastern NY Commercial Horticulture Program

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