Drones are becoming increasingly popular for use in the agricultural industry. Drone pictures and video can be an asset to any presentation, publication, or considered as a piece of art. Drone flight operations are easily learned with no prior flight knowledge or drone experience.

**FAA Regulations**

All drones must be registered with the Federal Aviation Administration (FAA). Part 107 governs all rules and regulations associated with drones weighing between 0.55 lbs to 55 lbs. Approved flight operations include:

- Crop monitoring/inspection
- Research and development
- Educational/academic uses
- Power-line/pipeline inspection in hilly or mountainous terrain
- Antenna inspections
- Aiding certain rescue operations
- Bridge inspections
- Aerial photography
- Wildlife nesting area evaluations

**Licensing**

All drone pilots are required to have a license if they are using their drones for any kind of paid reimbursement or for non-recreational use off of their own property. Routes for obtaining an Unmanned Aircraft Systems (UAS) license include:

- Private pilot license
- UAS pilot license

A drone pilot does not necessarily have to be the person flying the drone, but they should observe all flight operations. This is called Pilot in Control (PIC).

**DJI Phantom 3 Advanced**

This drone features the option of a built-in flight simulator for additional practice before it is actually flown.

- Built-in camera records video in 2.7k quality and takes 12 megapixel photos
- Camera is stabilized with a 3-axis stabilization gimbal
- Utilizes a live HD view on the controller
- GPS guidance
- Weather requires wind speeds of less than 15 mph