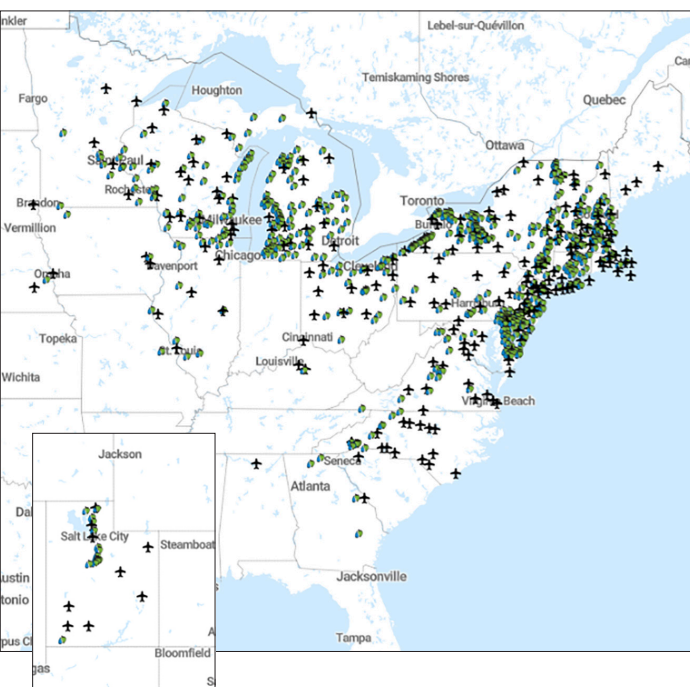## What is NEWA?

The Network for Environment and Weather Applications (NEWA) is part of the New York State Integrated Pest Management Program and Cornell Cooperative Extension at Cornell University. NEWA tools, which are developed by university researchers using published research coupled with regional extension expertise in 20 U.S. member states, are available at no additional cost beyond the purchase of a compatible HOBO weather station.

NEWA has been providing crop risk assessments since 1995, with users reporting annual average savings of $33,048 from crop loss prevention and $4,329 from reduced pesticide applications.

newa.cornell.edu

Learn more about NEWA

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Get the data you need to protect your crops, reduce costs, and maximize yield!

For more than 40 years, HOBO data loggers and weather stations have been deployed in the some of the harshest environments, where they provide accurate, reliable data to researchers and growers. Partnered with the Network for Environmental and Weather Applications (NEWA), users can incorporate HOBO data into NEWA's integrated pest management (IPM) and crop forecast tools to get the information they need to make better crop-management decisions.

Stay informed

Receive real-time alerts of critical conditions and a detailed view of crop monitoring data, all on a single, customizable dashboard.

Save time & money

Avoid wasted pesticide applications and determine the risk of disease or pest emergence by confirming wind, temperature, and humidity conditions.

Protect your crops against climate impacts

Connect up to 50 powerful wireless sensors to monitor microclimates over a wide area and protect plants from frost and excess heat with real-time alerts that allow rapid decision-making to prevent crop loss.

Improve irrigation management & efficiency

Use soil moisture, evapotranspiration, and rain data to irrigate only when needed and determine water retention and moisture patterns.

Optimize water usage

Easily track and record water level and flow remotely, to assess irrigation and detect leaks.

What types of weather-driven tools does NEWA provide?

- Hourly and daily weather summaries
- Degree-day tables
- Plant disease forecasts
- Insect models
- Crop production models
- National Weather Service forecasts

Weather, Crop & IPM Tools

Production Area	Commodities	Type	Name
all	all	weather	Historical Weather Data Query, Degree Day Calculator
fruit	apples	disease	Apple Scab, Fire Blight, Sooty Blotch and Fly Speck
		insect pest	Apple Maggot, Codling Moth, Obliquebanded Leafroller, Oriental Fruit Moth, Plum Curculio, San Jose Scale, Spotted Tentiform Leafminer
		crop load management	Apple Carbohydrate Thinning, Pollen Tube Growth Model, Apple Irrigation
	berries	insect pest	Blueberry Maggot
		disease	Strawberry Diseases
	grapes	disease	Grape Diseases
		insect pest	Grape Berry Moth, Spotted Lanternfly
field crops	alfalfa	insect pest	Alfalfa Weevil
vegetables	beets	disease	Beet Cercospora Leaf Spot
	cabbage	insect pest	Cabbage Maggot
	onions	disease	Onion Diseases
		insect pest	Onion Maggot
	potatoes	disease	Potato Diseases (Legacy version)
	tomatoes	disease	Tomato Diseases (Legacy version)

NEWA Modeling and HOBO Weather Stations

Combining easy-to-deploy, rugged HOBO weather stations with NEWA's forecasting data provides access to both microclimate monitoring data and integrated crop models.

The NEWA Network

- Plant disease models
- Insect pest development models
- Crop production models

Grower

HOBO Weather Station

- Reliable weather monitoring with low-cost data plans
- Alarm notifications via text or email
- 24/7 data access via HOBOlink