2019 NEWA Report for New York State Mesonet at UAlbany

Project Leaders

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Introduction

2019 marked the second year of collaboration between the Network for Environment and Weather Applications (NEWA), which is part of the New York State IPM Program at Cornell University, and the New York State Mesonet (NYSM), part of the University at Albany. A 2018 pilot project that linked 10 data streams from key NYSM locations (Table 1) continued for the entirety of 2019. The following sections summarize NEWA digital outreach and impact among online users located within NY for the 2019 calendar year, based on user IP address. In 2019, 250 unique users in NY accessed the NEWA platform for these 10 NYSM locations, completing 8,787 pageviews to achieve 66 online contact hours

Locations

Table 1. NYSM data streams linked to NEWA in 2019.

City	County	NYSM ID	NEWA weather station webpage
Burt	Niagara	burt	http://newa.cornell.edu/index.php?page=weather-station-page&WeatherStation=nysm_burt
Cobleskill	Schoharie	cobl	http://newa.cornell.edu/index.php?page=weather-station-page&WeatherStation=nysm_cobl
Fredonia	Chautauqua	fred	http://newa.cornell.edu/index.php?page=weather-station-page&WeatherStation=nysm_fred
Laurens	Otsego	laur	http://newa.cornell.edu/index.php?page=weather-station-page&WeatherStation=nysm_laur
Sherburne	Chenango	sher	http://newa.cornell.edu/index.php?page=weather-station-page&WeatherStation=nysm_sher
South Bristol	Ontario	sbri	http://newa.cornell.edu/index.php?page=weather-station-page&WeatherStation=nysm_sbri
Southold	Suffolk	sout	http://newa.cornell.edu/index.php?page=weather-station-page&WeatherStation=nysm_sout
Sprakers	Montgomery	spra	http://newa.cornell.edu/index.php?page=weather-station-page&WeatherStation=nysm_spra

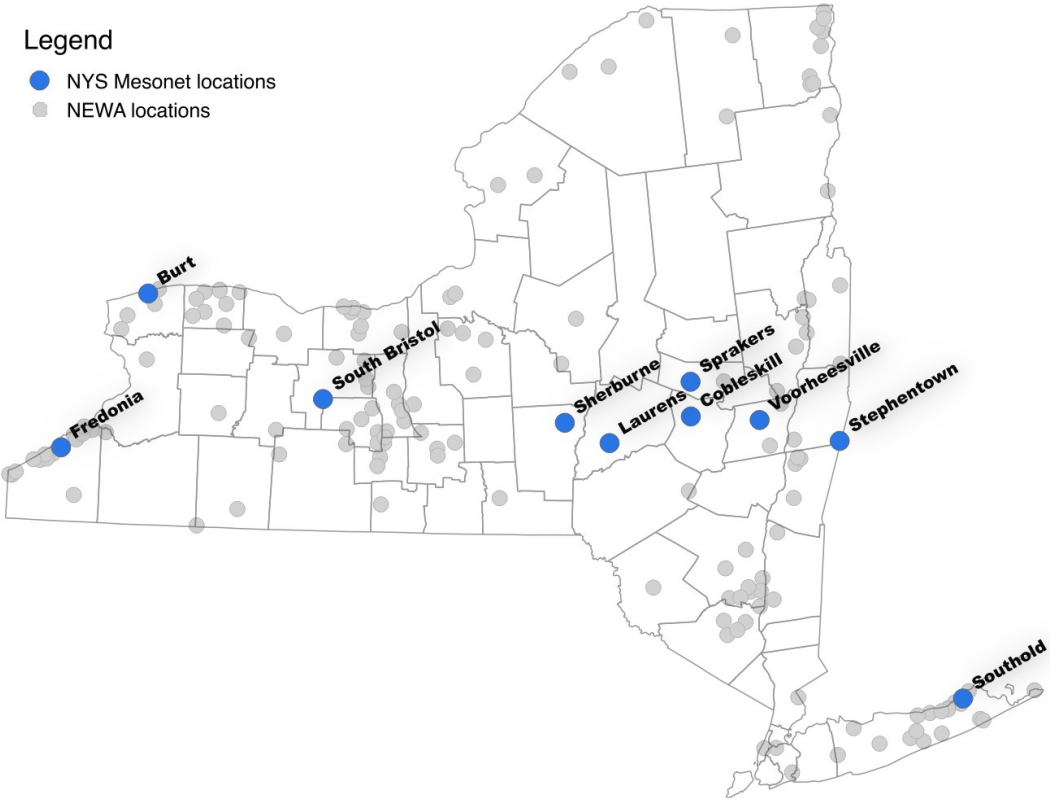| City	County	NYSM ID	NEWA weather station webpage
Stephentown	Rensselear	step	http://newa.cornell.edu/index.php?page=weather-station-page&WeatherStation=nysm_step
Voorheesville	Albany	voor	http://newa.cornell.edu/index.php?page=weather-station-page&WeatherStation=nysm_voor

Figure 1. NYSM data streams linked to NEWA in 2019.

AGRICULTURAL IMPACT OF ALL NYSM LOCATIONS AMONG NY USERS

The Network for Environment and Weather Applications (NEWA) is a collection of online insect pest and plant disease management tools built to provide NY growers with short-term crop risk assessments. Each tool or resource uses real-time weather data from New York State Mesonet at http://newa.cornell.edu and National Weather Service forecast data. The availability of tools from NEWA for the 10 NYSM locations is made possible in NY through a partnership with New York State Mesonet, part of University at Albany, and the Northeast Regional Climate Center and the New York State IPM Program at Cornell University.

WEATHER RESOURCES

Resource	Users	Pageviews	Contact hours
Daily Summaries	10	18	1.0
Hourly Data	22	33	0.1
Degree Day Monthly Summaries	6	6	0.0

Resource	Users	Pageviews	Contact hours
Degree Day Calculator	9	12	0.0

APPLE RESOURCES

Resource	Users	Pageviews	Contact hours
Apple Diseases	17	24	0.3
Apple Insects	3	3	0.0
Apple Leaf Wetness Events	0	0	0.0
Apple Carbohydrate Thinning Model	2	2	0.0
Apple CHO Thinning v2019	1	1	0.0
Apple Irrigation	2	2	0.0

GRAPE RESOURCES

Resource	Users	Pageviews	Contact hours
Grape Diseases, DMCast, and Grape Berry Moth	9	13	0.0

VEGETABLE RESOURCES

Resource	Users	Pageviews	Contact hours
Cabbage Maggot	1	1	0.0
Onion Diseases	0	0	0.0
Onion Maggot	0	0	0.0
Potato Diseases	0	0	0.0
Tomato Diseases	0	0	0.0
Sweet Corn Stewarts Wilt Map	0	0	0.0

FIELD CROPS RESOURCES

Resource	Users	Pageviews	Contact hours
Alfalfa Weevil	0	0	0.0

CONCLUSIONS

Users accessing the information from the 10 NYSM locations are mainly interested in the weather data, especially the hourly data and the daily summaries. Of the 10 locations, two are in grape-growing regions, one is in the Lake Ontario apple-growing region, one is on a berry farm and the other six are located in areas where field crops are primarily grown. Of these crops, only grapes and apples have a wealth of IPM tools on NEWA. This partnership provides an excellent opportunity to engage with new audiences for NEWA and explore the needs for IPM tools in new commodity areas.