



# Newsletter

www.carovail.com  
www.facebook.com/CaroVail

## CaroVail

Agronomy Update

September 9, 2016

### Locations

#### Auburn

55 Columbus St  
Auburn, NY 13021  
315-253-7379

#### Bernardston

472 Northfield Road  
Bernardston, MA  
01337  
413-648-9900

#### Niverville

831 Route 28  
Niverville, NY 12130  
518-784-9166

#### Oriskany Falls

8341 US State Rt 20  
Oriskany Falls, NY  
13425  
315-841-3201

#### Salem

4134 State Rt 22  
Salem, NY 12865  
518-854-9446

#### Tri Valley Crop Ctr

337 State Hwy 162  
Sprakers, NY 12166  
518-673-5336

## Guide to Nutrient Deficiency Symptoms



## Fall Harvest Observations

Frank Flis

While harvesting this year's crop, staying aware of abnormalities is always prudent. However, this season's weather patterns may throw you a few curves, especially when looking for nutrient challenges. During the extended hot and dry periods the crop struggled to get necessary nutrients from the soil. With the goal of producing a seed the plant begins to cannibalize itself.

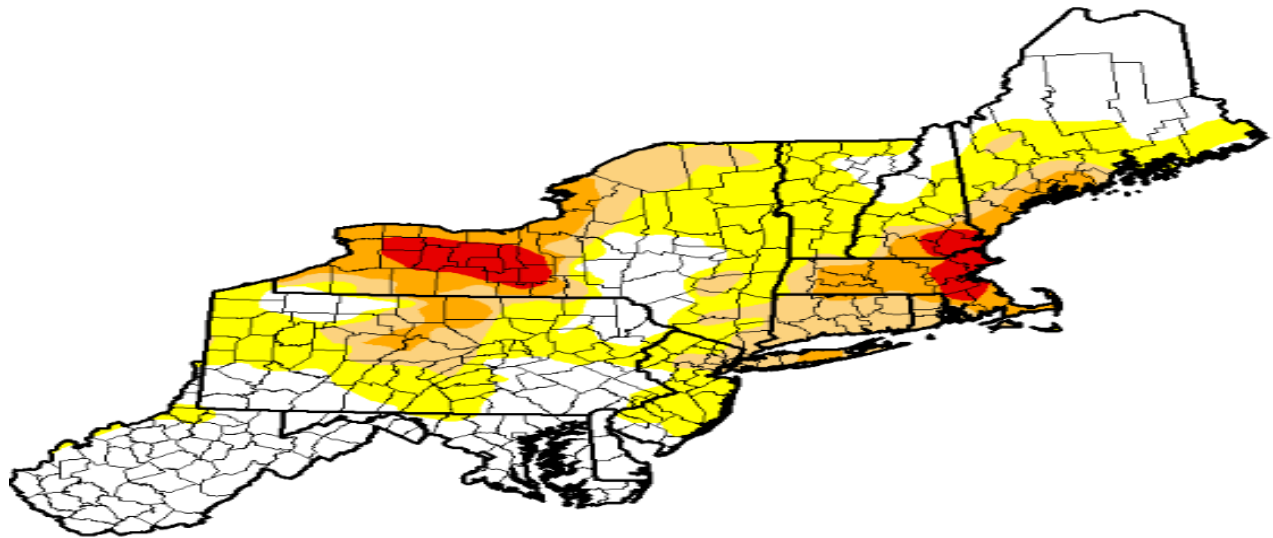
Translocating nutrients (those that move within the plant) like Nitrogen (N), Potassium (K), and Sulfur (S) will tend to move from within the plant to the growing point of the grain or seed. Under this season's extreme deficiency, symptoms will appear on the plant--especially flaring on the lower leaves which indicate movement of N and K. Pale upper leaves may indicate S movement through the plant. During periods of minimum rainfall and low production, N is not mineralized in the soil leaving the plant to act on itself. Late season rain arrived in many areas and N has been activated resulting in a new green up with signs of deficiency on lower 4 leaves. To further complicate the evaluation process, using Stalk Nitrate Tests (CSNT's) will likely show excess N in the stalks making plans for next season more complicated.

As always, records of weather, nutrients applied, yield data, and fresh soil tests will help with that planning process for upcoming planting season. Unused nutrients from this season, especially K and N, make gathering more information a priority. The K will move little and there is potential of up to 50% of the N still in the soil both from applied N and normal unmineralized soil N. Capturing some of these nutrients with a cover crop may be beneficial.

Good soil tests will be very important this fall to determine the leftovers and developing a strategy for 2017 growing season. Compiling yield data, field observations, soil information, and fall field adjustments (lime, cover crop) add to that planning process.

## U.S. Drought Monitor Northeast

- Auburn
- Bernardston
- Niverville
- Oriskany Falls
- Salem
- Tri Valley



**September 6, 2016**  
(Released Thursday September 8, 2016)  
Valid 8 a.m. EDT

Statistics type: Traditional Percent Area

Export table: [PNG](#) [CSV](#) [XLS](#)

Week	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b> <a href="#">2016-09-06</a>	40.48	59.52	27.78	13.70	3.86	0.00
<b>Last Week</b> <a href="#">2016-08-30</a>	41.51	58.49	27.29	12.82	2.52	0.00
<b>3 Months Ago</b> <a href="#">2016-06-07</a>	56.82	43.18	2.17	0.00	0.00	0.00
<b>Start of Calendar Year</b> <a href="#">2015-12-29</a>	62.10	37.90	6.60	0.00	0.00	0.00
<b>Start of Water Year</b> <a href="#">2015-09-29</a>	42.41	57.59	9.00	0.00	0.00	0.00
<b>One Year Ago</b> <a href="#">2015-09-08</a>	51.55	48.45	4.39	0.00	0.00	0.00

Estimated Population in Drought Areas: **32,974,354**

[View More Statistics](#)

**Intensity:**

- D0 (Abnormally Dry)
- D2 (Severe Drought)
- D4 (Exceptional Drought)
- D1 (Moderate Drought)
- D3 (Extreme Drought)

# Weather Update

	Approx. Weekly Rainfall	Avg expected high Temp next week	Avg expected Low Temp next week	GDD (Base 50) since Jan 1	GDD (Base 50) since Mar 1	GDD (Base 50) since Apr 1	GDD (Base 50) since May 1
Auburn	1.13	77	55	2384	2384	2359	2323
Bernardston	.21	77	48	2395	2395	2369	2316
Niverville	.45	79	56	2425	2425	2392	2335
Oriskany Falls	.74	73	52	2321	2321	2284	2247
Salem	.63	77	54	2108	2108	2084	2040
TVCC	.51	77	54	2587	2587	2557	2483

Auburn

Bernardston

Niverville

Oriskany Falls

Salem

Tri Valley



United States Department of Agriculture  
National Agricultural Statistics Service



## Crop Progress & Condition



**New York**

Blair Smith, State Statistician
10B Airline Drive, Albany, NY 12235
Phone: 518-457-5570 Fax: 800-591-3834

[www.nass.usda.gov/ny](http://www.nass.usda.gov/ny)  
Week ending September 4, 2016
Issued weekly on the internet, April - November  
by the Northeastern Regional Field Office of NASS
[nassrfoener@nass.usda.gov](mailto:nassrfoener@nass.usda.gov)  
Released September 6, 2016

**Excellent Week for Field Work:** New York had an average of 6 days suitable for field work. Tropical Storm Hermine missed the state of New York over the Labor Day weekend. Some regions throughout the state received a little rain; nonetheless, many areas were still experiencing dry conditions, with several in a D3 drought category. Farmers were finally able to catch a break from the heat, with many regions recording cooler temperatures ideal for field work. Several counties reported corn silage harvesting under commencement. Overall, most corn and soybean crops this season have been stressed due to the hot and dry weather, with some regions reporting corn yields being half of a typical season. Vineyards started harvesting grapes for the use of sparkling wine this past week. Unfortunately, some fruit growers were experiencing frost damage in isolated areas. Though the dry weather has been more of a detriment than a benefit to crops this season, it certainly has been a boon to hay growers, as they experienced a very good third cutting of hay. Field activities for the week included small fruit harvesting, pest control, applying pesticides and manure, irrigation, repair and maintenance of equipment.

**Soil Moisture for Week Ending September 4, 2016**  
(in percent)

Item	Very Short	Short	Adequate	Surplus
TOPSOIL	22	25	41	12
SUBSOIL	21	27	43	9

**Crop Conditions as of September 4, 2016**  
(in percent)

Item	Very Poor	Poor	Fair	Good	Excellent
APPLES	9	29	44	18	0
BARLEY	0	2	26	70	2
CORN	7	9	23	45	16
GRAPES	0	7	30	62	1
HAY, ALFALFA	5	6	38	44	7
HAY, OTHER	6	8	40	42	4
OATS	2	3	20	70	5
PASTURE AND RANGE	5	12	40	37	6
SOYBEANS	7	13	28	43	9
WINTER WHEAT	0	3	22	57	18

**Crop Progress as of September 4, 2016**  
(in percent)

Item	This Week	Last Week	Last Year	5 Year Avg.
FALL TILLAGE: SINGLE	24	16	30	19
BARLEY: HEADED	95	93	37	36
BARLEY: HARVESTED	77	62	86	72
CABBAGE: HARVESTED	55	45	58	59
CORN: SILKING	91	87	94	94
CORN: DOUGH	61	51	63	59
CORN: DENTED	28	19	22	17
CORN AVERAGE HEIGHT: (IN.)	71	71	93	N/A
HAY, ALFALFA: THIRD CUTTING	50	46	69	65
HAY, ALFALFA: FOURTH CUTTING	12	<5	14	8
HAY, OTHER: SECOND CUTTING	91	89	89	92
HAY, OTHER: THIRD CUTTING	49	42	58	59
HAY, OTHER: FOURTH CUTTING	9	<5	7	5
OATS: HARVESTED	89	85	87	90
POTATOES: HARVESTED	31	29	38	40
SNAP BEANS: HARVESTED	47	43	72	69
SOYBEANS: SETTING PODS	90	79	79	79
SOYBEANS: DROPPING LEAVES	17	<5	12	5
SWEET CORN: HARVESTED	72	62	79	75
APPLES: HARVESTED	16	14	21	25

For a complete nationwide weekly weather and crop bulletin, please visit [www.usda.gov/oc/weather](http://www.usda.gov/oc/weather) and click on "Weekly Weather and Crop Bulletin."