

# Plant Health Care Report

## Scouting Report of The Morton Arboretum

May 19, 2023

Growing Degree Day/Weather issue

### What indicator plant is in bloom at the Arboretum?

Bridal wreath spirea (*Spiraea x vanhoutteii*) is in full flower.



Accumulated Growing Degree Days (Base 50): 257 (as of May 18)

### Degree Days and rainfall

Figure 1 Bridal wreath spirea

As of May 18, we have 257 base 50 growing degree days (GDD) at The Morton Arboretum. The historical average (1937-2022) for this date is 193 GDD<sub>50</sub>.

Location	GDD as of 5/18/2023	GDD as of 5/19/2022	GDD as of 5/18/2017	GDD as of 5/19/2016
Carbondale, IL*	655	682	828	687
Champaign, IL*	452	459	585	447
Chicago Botanic Garden**	296	288 (5/18)	196 (5/17)	140.5 (5/18)
Glencoe*	100	146	No report	No report
Chicago O'Hare*	351	361	346	279
Kankakee, IL*	355	318	425	322
Lisle, IL*	353	367	363	302
The Morton Arboretum	257	328.5	288	209
Quincy, IL*	517	528	684	537
Rockford, IL*	308	289	305	222
Springfield, IL*	485	499	618	490
Waukegan, IL* (60087)	265	273	232	172
Waukegan, IL* (60085)	299	304	No report	No report

\*We obtain most of our degree day information from the GDD Tracker from Michigan State University web site. For additional locations and daily degree days, go to <https://gddtracker.msu.edu/>. \*\*Thank you to Chris Henning, Chicago Botanic Garden, for supplying us with this information.

Seasonal precipitation (rain and melted snow) in inches.			
	2023	2022	Historical average (1937-2022)
Jan	2.85	1	1.935
Feb	4.88	2.61	1.775
Mar	2.29	3.88	2.536
April	2.23	3.88	3.667
May	.79 (thru 5/18)	6.1	4.206
Year to date	13.04 (thru 5/18)	17.47 (thru May)	14.12 (thru May)

Examples of insects that may emerge soon in northern Illinois (based on growing degree days)			
GDD (base 50)	insect	Life stage present at this GDD	Type of damage
300-700	Oystershell scale	Crawlers emerging	Feeding on sap
400-600	Bronze birch borer	Larvae hatching out and beginning to enter bark	Tunneling under bark
400-600	Emerald ash borer	Adults beginning to emerge	Mating and laying eggs
400-500	Pine needle scale	Crawlers emerging	Feeding on sap
450	Boxwood leafminer	Adults emerging	Laying eggs

### Soil temperatures around Illinois (from Illinois State Water Survey)

This information will be provided all season. For data from other reporting stations, go to <https://www.isws.illinois.edu/warm/soil/> (you will need to set up an account to access data.)

Max. Soil temps For May 18, 2023*	St. Charles reporting station (north)	Champaign reporting station (central)	Carbondale reporting station (south)
2-inch, bare soil	78.6	90.2	85.1
4-inch, bare soil	76.1	79.4	78.5
4-inch, under sod	65.9	75.7	75.1
8-inch, under sod	61.2	69.7	70.7

\* This is the maximum soil temperature recorded the day prior to publication of PHCR.



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