

# Plant Health Care Report

## Scouting Report of The Morton Arboretum

July 14, 2023

Growing Degree Day/Weather issue

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

Panicked hydrangea (*Hydrangea paniculata*) is in flower (fig. 1)



Accumulated Growing Degree Days (Base 50): 1233 (as of July 13)

Figure 1 Panicked hydrangea. Photo: John Hagstrom

### Degree Days and rainfall

As of July 13, we have 1233 base 50 growing degree days (GDD) at The Morton Arboretum. The historical average (1937-2022) for this date is 1279 GDD<sub>50</sub>.

Location	GDD as of 7/13/2023	No issue on July 15, 2022	GDD as of 7/13/2017	GDD as of 7/14/2016
Carbondale, IL*	1994		2205	2178
Champaign, IL*	1645		1843	1804
Chicago Botanic Garden**	No report		1247 (7/12)	1244 (7/13)
Glencoe*	801		No report	No report
Chicago O'Hare*	1462		1465	1591
Kankakee, IL*	1442		1593	1590
Lisle, IL*	1488		1512	1615
The Morton Arboretum	1233		1315	1341.5
Quincy, IL*	1752		1933	1980
Rockford, IL*	1367		1349	1416
Springfield, IL*	1684		1913	1907
Waukegan, IL* (60087)	1238		1188	1370
Waukegan, IL* (60085)	1323		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.

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
1200-1800	Fall webworm	Caterpillars feeding, but webbing not seen yet	Chewing on leaves

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	6.1	4.206
June	1.23	2.51	4.2
July	5.44 (thru 7/13)	5.7 (whole month)	3.9 (whole month)
Aug			
Sept			
Year to date	19.71 (thru 7/13)	25.68	22.21

### 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 July 13, 2023*	St. Charles reporting station (north)	Champaign reporting station (central)	Carbondale reporting station (south)
2-inch, bare soil	77	89.6	95.6
4-inch, bare soil	75.9	83.8	89.5
4-inch, under sod	77.1	82.4	86.1
8-inch, under sod	73.5	79.4	81.8

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

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