

# Plant Health Care Report

## Scouting Report of The Morton Arboretum

July 28, 2023

Growing Degree Day/Weather issue

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

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



Accumulated Growing Degree Days (Base 50): 1543.5 (as of July 27)

Figure 1 Panicked hydrangea. Photo: John Hagstrom

### Degree Days and rainfall

As of July 27, we have 1543.5 base 50 growing degree days (GDD) at The Morton Arboretum. The historical average (1937-2022) for this date is 1622 GDD<sub>50</sub>.

Location	GDD as of 7/27/2023	GDD as of 7/28/2022	GDD as of 7/27/2017	GDD as of 7/28/2016
Carbondale, IL*	2397	2571	2648	2620
Champaign, IL*	1996	2113	2214	2200
Chicago Botanic Garden**	No report	No report	1578	1622 (7/26)
Glencoe*	1107	1355	No report	No report
Chicago O'Hare*	1815	1927	1790	1982
Kankakee, IL*	1759	1865	1921	1965
Lisle, IL*	1839	1948	1842	2003
The Morton Arboretum	1543.5	1807	1631	1706.5
Quincy, IL*	2142	2212	2356	2408
Rockford, IL*	1673	1733	1658	1764
Springfield, IL*	2042	2184	2310	2320
Waukegan, IL* (60087)	1567	1660	1475	1748
Waukegan, IL* (60085)	1661	1754	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
1950	Magnolia scale	Crawlers begin to emerge	Feeding on sap

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	7.2 (thru 7/27)	5.7 (whole month)	3.9 (whole month)
Aug			
Sept			
Year to date	21.47 (thru 7/27)	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 27, 2023*	St. Charles reporting station (north)	Champaign reporting station (central)	Carbondale reporting station (south)
2-inch, bare soil	97.2	105	102.5
4-inch, bare soil	94.1	94.9	94.5
4-inch, under sod	82.5	91.7	87.8
8-inch, under sod	77.6	84.5	83.5

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

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