

# Plant Health Care Report

## Scouting Report of The Morton Arboretum

July 30, 2021

Growing Degree Day/Weather issue

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

Rose of Sharon (*Hibiscus syriacus*) is in flower (fig. 1)

Accumulated Growing Degree Days (Base 50): 1775.5 (as of July 29)



Figure 1 Rose of Sharon (photo by John Hagstrom)

### Degree Days and Rainfall

As of July 29, we have 1775.5 base-50 growing degree days (GDD) at The Morton Arboretum. The historical average (1937-2020) for this date is 1671 GDD<sub>50</sub>.

Location	GDD as of 7/29/21	GDD as of 7/30/20	GDD as of 7/30/15	GDD as of 7/31/14
Carbondale, IL*	2358	2395	2559	No issue
Champaign, IL*	2034	2024	2146	No issue
Chicago Botanic Garden	No report	1794	1420 (7/29)	No issue
Glencoe*	1403	1404	No report	No issue
Chicago O'Hare*	1968	1882	1834	No issue
Kankakee, IL*	1882	1884	1857	No issue
Lisle, IL*	1960	1920	No report	No issue
The Morton Arboretum	1775.5	1839.5	1587.5	No issue
Quincy, IL*	2158	2134	2266	No issue
Rockford, IL*	1809	1779	1567	No issue
Springfield, IL*	2109	2094	2245	No issue
Waukegan, IL* (60087)	1763	1645	1512	No issue
Waukegan, IL* (60085)	1856	1712	No report	No issue

\*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/>

Seasonal precipitation (rain and melted snow) in inches.			
	2021	2020	average
Jan	1.5	2.14	1.952
Feb	1.49	.85	1.769
Mar	1.24	4.15	2.536
April	1.39	4.37	3.692
May	3.34	8.24	4.194
June	6.57	4.91	4.190
July	2.04 (as of 7/29)	2.87	3.893
Aug		1.1	3.802
Year to date	17.29 (as of 7/29)	27.53 (as of 7/31)	22.22 (as of 7/31)
Total (Jan-Sept)		32.18 (Jan-Sept)	29.33 (Jan-Sept)

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
1950	Magnolia scale	Crawlers begin to emerge ( <a href="#">National Phenology Network</a> predicts they will BEGIN to emerge within the next week)	Feeding on sap

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

For more data 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 29, 2021*	St. Charles reporting station (north)	Champaign reporting station (central)	Carbondale reporting station (south)
2-inch, bare soil	87.4	85.6	97.6
4-inch, bare soil	89.3	88.1	90.0
4-inch, under sod	84.6	85.4	87.8
8-inch, under sod	78.7	81.4	82.1

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



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