

Plant Health Care Report

Scouting Report of The Morton Arboretum

May 20, 2022

Growing Degree Day/Weather issue

What indicator plant is in bloom at the Arboretum?

Common lilac (*Syringa vulgaris*) is in full flower.

Accumulated Growing Degree Days (Base 50): 328.5 (as of May 19)



Insect update: Our scouts report that viburnum leaf beetle larvae are actively feeding.

Degree Days and rainfall

As of May 19, we have 328.5 base-50 growing degree days (GDD) at The Morton Arboretum. The historical average (1937-2021) for this date is 205 GDD₅₀.

Figure 1 Lilac

Location	GDD as of 5/19/2022	GDD as of 5/20/21	GDD as of 5/21/15	GDD as of 5/22/14
Carbondale, IL*	682	582	677	618
Champaign, IL*	459	385	525	459
Chicago Botanic Garden**	288 (5/18)	324	235	173.5 (5/19)
Glencoe*	146	133	No report	No report
Chicago O'Hare*	361	367	350	307
Kankakee, IL*	358	318	400	350
Lisle, IL*	367	364	No report	No report
The Morton Arboretum	328.5	291	279	234
Quincy, IL*	528	463	589	491
Rockford, IL*	289	294	270	233
Springfield, IL*	499	431	586	492
Waukegan, IL* (60087)	273	293	237	237
Waukegan, IL* (60085)	304	325	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.			
	2022	2021	Historical average (1937-2021)
Jan	1	1.5	1.946
Feb	2.61	1.49	1.765
Mar	3.88	1.24	2.520
April	3.88 (not a typo, same as March)	1.39	3.665
May	3.89 (5/19)	3.34 whole month	4.18
Year to date	15.26 (5/19)	8.96 (Jan thru May)	14.08 (Jan thru May)

Examples of insects that may emerge soon in northern Illinois (based on GDD)			
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	Elm leaf beetle	First generation larvae emerging	Chewing leaves
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 19, 2022*	St. Charles reporting station (north)	Champaign reporting station (central)	Carbondale reporting station (south)
2-inch, bare soil	79.8	92.9	86.2
4-inch, bare soil	77.4	85.2	78.2
4-inch, under sod	68.5	76.6	78.1
8-inch, under sod	63.1	71.3	72.3

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



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