

# Plant Health Care Report

## Scouting Report of The Morton Arboretum

May 5, 2023

Growing Degree Day/Weather issue

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

Korean spice viburnum (*Viburnum carlesii*) is in full flower.



Accumulated Growing Degree Days (Base 50): 107 (as of May 4)

### Degree Days and rainfall

Figure 1 Korean spice viburnum

As of May 4, we have 107 base-50 growing degree days (GDD) at The Morton Arboretum. The historical average (1937-2022) for this date is 63 GDD<sub>50</sub>.

Location	GDD as of 5/4/2023	GDD as of 5/5/2022	GDD as of 5/4/2017	GDD as of 5/5/2016
Carbondale, IL*	373	381	584	522
Champaign, IL*	212	184	382	318
Chicago Botanic Garden**	No report	87	159 (5/3)	86 (5/4)
Glencoe*	60	30	No report	No report
Chicago O'Hare*	172	108	214	181
Kankakee, IL*	159	119	267	228
Lisle, IL*	165	117	226	201
The Morton Arboretum	107	91	171.5	134
Quincy, IL*	251	234	434	391
Rockford, IL*	130	63	169	138
Springfield, IL*	251	215	389	347
Waukegan, IL* (60087)	136	70	134	107
Waukegan, IL* (60085)	154	81	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	.35 (thru 5/4)	6.1	4.206
Year to date	12.6 (thru 5/4)	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
145-200	<a href="#">spongy moth</a> (formerly gypsy moth)	Caterpillars emerging	Chewing leaves
100-200	Zimmerman pine moth	Larvae emerging from overwintering sites on trunk	Tunneling into bark
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 4, 2023*	St. Charles reporting station (north)	Champaign reporting station (central)	Carbondale reporting station (south)
2-inch, bare soil	75	84.7	70.6
4-inch, bare soil	73.5	73.4	66.4
4-inch, under sod	61.9	68.2	62.9
8-inch, under sod	55	61	60.2

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



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