

# Plant Health Care Report

## Scouting Report of The Morton Arboretum

May 6, 2022

Growing Degree Day/Weather issue

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

Redbud (*Cercis canadensis*) is in flower.

**Accumulated Growing Degree Days (Base 50): 91 (as of May 5)**

**Disease update:** Our scouts report that cedar-quince rust on juniper is starting to sporulate.



Figure 1 Redbud

### Degree Days and rainfall

As of May 5, we have 91 base-50 growing degree days (GDD) at The Morton Arboretum. The historical average (1937-2021) for this date is 80 GDD<sub>50</sub>.

Location	GDD as of 5/5/2022	GDD as of 5/6/21	GDD as of 5/7/15	GDD as of 5/8/14
Carbondale, IL*	381	436	446	405
Champaign, IL*	184	279	319	277
Chicago Botanic Garden**	87	242	93 (5/5)	52.5
Glencoe*	30	84	No report	No report
Chicago O'Hare*	108	258	206	127
Kankakee, IL*	119	229	246	182
Lisle, IL*	117	260	No report	No report
The Morton Arboretum	91	192.5	130.5	76
Quincy, IL*	234	348	411	308
Rockford, IL*	63	205	162	97
Springfield, IL*	215	318	381	302
Waukegan, IL* (60087)	70	200	124	81
Waukegan, IL* (60085)	81	226	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	3.5 as of 5/5	3.34 whole month	4.18
Year to date	14.87 as of 5/5	8.96 (Jan thru May)	14.08 (Jan thru May)

<b>Examples of insects that may emerge soon in northern Illinois (based on GDD)</b>			
GDD (base 50)	insect	Life stage present at this GDD	Type of damage
20-90	Magnolia scale	Overwintering nymphs become active	Feeding on sap
100 (possibly less)	Viburnum leaf beetle	Larvae (may be feeding when leaves are half expanded)	Chewing leaves
100-200	Eastern tent caterpillar	Caterpillars ( <a href="http://www.usanpn.org">www.usanpn.org</a> indicates emergence is upon us)	Chewing leaves
100-200	Elm flea weevil	Overwintering adults and larvae	Chewing leaves
100-200	Pine sawfly	Emergence confirmed. Our scouts have found tiny, tiny larvae!!!	Chewing needles
100-200	spongy moth (formerly gypsy moth)	Caterpillars emerging	Chewing leaves
100-200	Zimmerman pine moth	Larvae emerging from overwintering sites on trunk	Tunneling into bark

### 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.) Crabgrass does not germinate until soil temps are above 55 degrees for 5 to 7 days (use more shallow depth for this). Root growth on trees/shrubs occurs when soil temps are above 45 degrees (use deeper depth).

Max. Soil temps For May 5, 2022*	St. Charles reporting station (north)	Champaign reporting station (central)	Carbondale reporting station (south)
2-inch, bare soil	56.2	58	66.6
4-inch, bare soil	55.3	54.6	62.7
4-inch, under sod	54.1	58.2	65.1
8-inch, under sod	52.6	58.2	61.6

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



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