

# Plant Health Care Report

## Scouting Report of The Morton Arboretum

**April 21, 2023**

**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): 100 (as of April 20)**

**Pest update: We have a confirmed case of European pine sawfly larvae.**



### Degree Days and rainfall

As of April 20, we have 100 base-50 growing degree days (GDD) at The Morton Arboretum. The historical average (1937-2022) for this date is 8 GDD<sub>50</sub>.

Figure 1 Redbud

Location	GDD as of 4/20/2023	GDD as of 4/21/2022	GDD as of 4/20/2017	GDD as of 4/21/2016
Carbondale, IL*	309	196	454	344
Champaign, IL*	183	76	299	207
Chicago Botanic Garden**	143	34 (4/20)	99 (4/19)	51
Glencoe*	60	10	No report	No report
Chicago O'Hare*	158	55	165	132
Kankakee, IL*	146	47	203	168
Lisle, IL*	153	57	174	148
The Morton Arboretum	100	32.5	121.5	91
Quincy, IL*	205	115	366	263
Rockford, IL*	120	23	132	91
Springfield, IL*	207	96	323	221
Waukegan, IL* (60087)	130	37	103	79
Waukegan, IL* (60085)	145	42	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	1.9 (thru 4/20)	3.88	3.667
Year to date	11.92 (thru 4/20)	11.37 (thru April)	9.91 (thru April)

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
100 (possibly less)	Viburnum leaf beetle	Larvae (may be feeding when leaves are half expanded)	Chewing leaves
100-200	<a href="#">Eastern tent caterpillar</a>	Caterpillars	Chewing leaves
100-200	Elm flea weevil	Overwintering adults and larvae	Chewing leaves
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

### 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 April 20, 2023*	St. Charles reporting station (north)	Champaign reporting station (central)	Carbondale reporting station (south)
2-inch, bare soil	68.3	78.8	74.2
4-inch, bare soil	65.5	72.5	68.8
4-inch, under sod	58.5	66.7	65.2
8-inch, under sod	53.6	60.8	61.6

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



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