

# Plant Health Care Report

## Scouting Report of The Morton Arboretum

April 22, 2022

Growing Degree Day/Weather issue

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

Redbud (*Cercis canadensis*) has flower buds ready to pop. This weekend's heat should make them open.



### Accumulated Growing Degree Days (Base 50): 32.5 (as of April 21)

With the warm temperatures predicted for the weekend, it is possible that our GDD here at The Arboretum could rise to 70 by Monday.

### Degree Days and rainfall

Figure 1 Redbud

As of April 21, we have 32.5 base-50 growing degree days (GDD) at The Morton Arboretum. The historical average (1937-2021) for this date is 13 GDD<sub>50</sub>.

Location	GDD as of 4/21/2022	GDD as of 4/22/21	GDD as of 4/23/15	GDD as of 4/25/14
Carbondale, IL*	196	264	291	No issue that week
Champaign, IL*	76	152	182	No issue that week
Chicago Botanic Garden**	34 (as of 4/20)	No report	45 (4/22)	No issue that week
Glencoe*	10	41	No report	No issue that week
Chicago O'Hare*	55	146	111	No issue that week
Kankakee, IL*	47	129	131	No issue that week
Lisle, IL*	57	147	No report	No issue that week
The Morton Arboretum	32.5	95	66.5	No issue that week
Quincy, IL*	115	172	236	No issue that week
Rockford, IL*	23	85	83	No issue that week
Springfield, IL*	96	165	222	No issue that week
Waukegan, IL* (60087)	37	114	56	No issue that week
Waukegan, IL* (60085)	42	132	No report	No issue that week

\*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	2.99 as of 4/20	1.39 whole month	3.665 whole month
Year to date	10.48	4.27 (Jan thru April)	9.9 (Jan 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
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> predicts these may emerge in the next week or two)	Chewing leaves
100-200	Elm flea weevil	Overwintering adults and larvae	Chewing leaves
100-200	Pine sawfly	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 April 21, 2022*	St. Charles reporting station (north)	Champaign reporting station (central)	Carbondale reporting station (south)
2-inch, bare soil	71.8	74.5	76
4-inch, bare soil	63.3	66.5	66.1
4-inch, under sod	54.3	61.1	63
8-inch, under sod	49.5	55.8	57.8

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



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