

# Plant Health Care Report

## Scouting Report of The Morton Arboretum

April 8, 2022

Growing Degree Day/Weather issue

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

Corneliancherry dogwood (*Cornus mas*) is in full flower.

**Accumulated Growing Degree Days (Base 50): 20.5 (as of April 7)**



Figure 1 *Cornus mas*

**Crabgrass update:** Crabgrass is beginning to germinate in Southern Illinois and temperatures are expected to increase next week, so apply crabgrass preventers in the next two weeks.

### Degree Days and Rainfall

As of April 7, we have 20.5 base-50 growing degree days (GDD) at The Morton Arboretum. The historical average (1937-2021) for this date is 0 GDD<sub>50</sub>.

Location	GDD as of 4/7/2022	GDD as of 4/8/21	GDD as of 4/9/15	GDD as of 4/10/14
Carbondale, IL*	125	194	159	No issue that week
Champaign, IL*	44	122	94	No issue that week
Chicago Botanic Garden**	21	102	8 (as of (4/8))	No issue that week
Glencoe*	2	40	No report	No issue that week
Chicago O'Hare*	28	134	43	No issue that week
Kankakee, IL*	28	109	51	No issue that week
Lisle, IL*	32	135	No report	No issue that week
The Morton Arboretum	20.5	91.5	14	No issue that week
Quincy, IL*	72	146	119	No issue that week
Rockford, IL*	9	80	26	No issue that week
Springfield, IL*	63	137	116	No issue that week
Waukegan, IL* (60087)	15	105	19	No issue that week
Waukegan, IL* (60085)	19	120	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	1.58 as of 4/7	1.39 whole month	3.665 whole month
Year to date	9.07	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	Chewing leaves
100-200	Elm flea weevil	Overwintering adults and larvae	Chewing leaves
100-200	Pine sawfly	larvae	Chewing needles
100-450	spongy moth (formerly gypsy moth)	larvae	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 7, 2021*	St. Charles reporting station (north)	Champaign reporting station (central)	Carbondale reporting station (south)
2-inch, bare soil	46.1	51.9	56.9
4-inch, bare soil	45.5	46.2	52.4
4-inch, under sod	47.5	50	57.6
8-inch, under sod	46.5	50.3	54.9

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



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