

Plant Health Care Report

Scouting Report of The Morton Arboretum

June 7, 2024

Growing Degree Day/Weather issue

What indicator plant is in bloom at the Arboretum?

Catalpa (*Catalpa* species) is in flower (fig. 1).



Figure 1 Catalpa Photo: John Hagstrom

Accumulated Growing Degree Days (Base 50): 648.5 (as of June 6)
(GDD updated 9/23/24)

Pest updates: Galls are showing up everywhere (more to come next week in the full issue). *Viburnum* crown borer is being reported. Brown rot of stone fruit is causing blighted leaves on cherry trees.

Degree Days

As of June 6, we have 648.5 base-50 growing degree days (GDD) at The Morton Arboretum. The historical average (1937-2023) for this date is 451 GDD₅₀.

| Location | GDD as of 6/6/2024 | GDD as of 6/8/2023 | GDD as of 6/6/2019 | GDD as of 6/6/2018 |
|--------------------------|--------------------|--------------------|--------------------|--------------------|
| Carbondale, IL* | 1354 | 1079 | 1026 | 1067 |
| Champaign, IL* | 974 | 876 | 763 | 933 |
| Chicago Botanic Garden** | 614.5 | 581 | 315 (6/5) | 467.5 |
| Glencoe* | 368 | 266 | 196 | No report |
| Chicago O'Hare* | 833 | 718 | 492 | 648 |
| Kankakee, IL* | 818 | 733 | 578 | 756 |
| Lisle, IL* | 841 | 731 | 522 | 672 |
| The Morton Arboretum | 648.5*** | 557 | 417.5 | 627.5 |
| Quincy, IL* | 1046 | 917 | 784 | 1023 |
| Rockford, IL* | 727 | 655 | 440 | 638 |
| Springfield, IL* | 1051 | 884 | 797 | 1011 |
| Waukegan, IL* (60087) | 639 | 567 | 340 | 477 |
| Waukegan, IL* (60085) | 713 | 626 | 384 | No report |

*We obtain most of our degree day information from the [GDD Tracker](#) from Michigan State University web site. **Thanks to Elizabeth Cullison, Chicago Botanic Garden, for supplying us with this information. ***Data updated 9/23/24

| Seasonal precipitation (rain and melted snow) in inches. | | | |
|--|------------------|--------------------|--------------------------------|
| 2024 data was updated on 9/20/2024 | 2024 | 2023 | Historical average (1937-2023) |
| Jan | 3.9 | 2.85 | 1.95 |
| Feb | .56 | 4.88 | 1.81 |
| Mar | 2.64 | 2.29 | 2.53 |
| April | 4.44 | 2.23 | 3.65 |
| May | 3.73 | .79 | 4.17 |
| June | 2.01 (as of 6/6) | 1.23 (whole month) | 4.16 (whole month) |
| July | | | |
| Aug | | | |
| Sept | | | |
| Year to date | 17.84 (thru 6/6) | 14.27 (thru June) | 18.27 (thru June) |

| 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 |
| 700-800 | Bagworm | Caterpillars emerging | Chewing foliage |
| 900-1200 | Japanese beetle | adults | Chewing foliage; mating and 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 June 6, 2024* | St. Charles reporting station (north) | Champaign reporting station (central) | Carbondale reporting station (south) |
|-----------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|
| 2-inch, bare soil | 83 | 84.2 | 88.9 |
| 4-inch, bare soil | 82.6 | 79.1 | 82.3 |
| 4-inch, under sod | 72.6 | 80.1 | 78 |
| 8-inch, under sod | 71.1 | 74.2 | 76.5 |

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



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