Reports Graphs Maps System Help Quit

It's been a wet spring. How late can I plant and still expect enough growing degree days for the crop to mature?

When does the growing season usually end?

The National Weather Service long-range forecast for this summer calls for above-normal temperatures and below-normal rainfall. What are the real temperature and rainfall numbers?

What are the typical high and low temperatures near my farm and how do they vary through the year?

What is the distribution of rainfall in my area from June through September, when crop water demands are high?

The Atlas has the answers!

Nearly a million reports, graphs, and maps can answer these and many other questions.

Computer Requirements

The minimum computer configuration required to run the Midwestern Agricultual Climate Atlas is:

- An IBM PC or 100% compatible microcomputer running DOS version 3.3 or later.
- An 80286 or faster processor (80386 is recommended for improved response time).
- A color monitor with an EGA or VGA graphics adapter (VGA is recommended for better quality).
- 640 kilobytes of available memory.
- · A hard-disk drive with at least 4 megabytes of free space.
- A 1.2-megabyte 5.25-inch floppy disk drive or a 1.44-megabyte 3.5-inch floppy disk drive.
- An HP Laserjet or Epson dot matrix printer if a paper copy of the atlas products is required. (Other printers may work, but results cannot be guaranteed.)

No additional proprietary software is necessary.



For more information about the Midwestern Agricultural Climate Atlas or other products available from the Midwestern Climate Center, please contact:

> The Midwestern Climate Center Illinois State Water Survey A Division of the Illinois Department of Energy and Natural Resources 2204 Griffith Drive Champaign, IL 61820-7495 Telephone (217) 244-8226 TDD (217) 785-0211 Telefax (217) 333-6540

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MIDWESTERN AGRICULTURAL CLIMATE ATLAS

Midwestern Climate Center
Illinois State Water Survey
National Oceanic and Atmospheric Administration
National Weather Service
Climate Analysis Center

Convenient access to frequently used climate statistics is now literally at your fingertips. Climatologists from the Midwestern Climate Center at the Illinois State Water Survey have developed a self-contained, computerized regional atlas of climate data for the agricultural community.

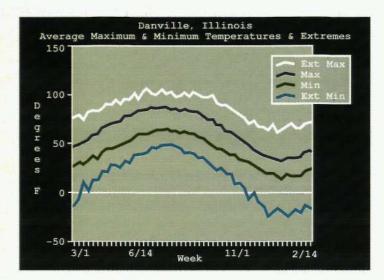
The Midwestern Agricultural Climate Atlas contains climate statistics for 645 midwestern sites with long-term daily climate records. They are located in Illinois, Indiana, Iowa, Kentucky, Michigan, Minnesota, Missouri, Ohio, and Wisconsin. The daily data for these sites were transformed into readily usable weekly and monthly statistics for the atlas database.

These statistics include air temperature, precipitation, and snowfall means, extremes, and probabilities of occurrence for various time durations from one week to one year. From these primary climatic elements, other variables are derived, including heating, cooling, and growing degree days; growing season length; and frost dates.

Data products are presented as reports, graphs, or maps:

- Reports give a tabular summary of climate statistics for a single station and various time periods.
- Graphs show the temporal distribution of a single element for a single station.
- Maps show the spatial patterns of a single element over a state or the entire region for a given time period.





Products Available on the Midwestern Agricultural Climate Atlas

Precipitation:

Average precipitation and snowfall

Number of days with precipitation greater than 0.00 inch and 0.10 inch

Precipitation Probabilities:

30-day periods beginning the 1st and 16th of each month 90-day periods beginning the 1st of each month

Temperature:

Average maximum temperature

Average minimum temperature

Extreme daily maximum and minimum temperatures

Temperature Probabilities:

30-day periods beginning the 1st and 16th of each month 90-day periods beginning the 1st of each month

Temperature Thresholds:

Probability of the daily maximum temperature exceeding the following thresholds (° F): 32, 40,50, 60, 65, 75, 80, 86, 90, 95, and 100

Probability of daily minimum temperature falling below the following thresholds (° F): -20, -15, 0, 20, 28, 32, 40, 50, 55, 60, 65, and 70

Crop Growing Degree Days:

Means for temperature bases of 40° F, 45° F, and 50° F Crop Growing Degree Days to First Frost:

Average accumulations from various dates to first fall frost

Insect Degree Days:

Means for temperature bases of 44° F, 48° F, 50° F, and 52° F Heating/Cooling Degree Days:

Means for base temperature 65° F

Growing Season/Frost Information:

Dates of the last spring frost and first fall frost Length of the growing season (days)

To Order the Midwestern Agricultural Climate Atlas

a user guide and program diskettes and is available for \$48. This is a The Midwestern Agricultural Climate Atlas, Version 1.0, includes a user guide and program diskettes and is available license fee to cover distribution costs for making the software available and does not constitute any royalty payment.

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				e check one)	@\$48 per copy
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Payment can be made by purchase order or check made payable to "University of Illinois/ISWS." Please send order form with payment to:

 Illinois State Water Survey Agricultural Climate Atlas Midwestern Climate Center