

Navigating cli-MATE



| Hourly Data (Station Data → Hourly) | |
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| Unedited Hourly | <ul style="list-style-type: none"> ○ ULCD and QCLCD from ASOS & AWOS stations nationwide (1996-Present) ○ Select station either by city or airport call sign ○ Multiple station daily summaries for one or multiple days (Midwest states only) |
| METAR – Raw or Decoded | <ul style="list-style-type: none"> ○ Data available from 2007-Present ○ Download up to 1 month of raw or 1 day of decoded data at a time |
| CRN Data | <ul style="list-style-type: none"> ○ Data from sites nationwide ○ Raw hourly data ○ Daily & monthly temperature and precipitation summaries |
| Daily Data Station Selector | |
| General Info | <ul style="list-style-type: none"> ○ Use “Select Station” button on the top left to enter the station selector ○ Select stations by station ID, climate division, or by State/County ○ Nationwide GIS map selector <ul style="list-style-type: none"> ▪ Select daily stations by network ▪ GIS map searchable by address, city or zip code ▪ Includes zip code overlay layer. (Other layers coming soon) ▪ More Info tab includes a station’s period of record and inventory of available data |
| Daily Data (Station Data → Daily) | |
| Between Two Dates | <ul style="list-style-type: none"> ○ Raw historical station data ○ Plot data or download in a csv file |
| Daily Degree Data | <ul style="list-style-type: none"> ○ Full suite of degree day data, including Heating Degree Days, Cooling Degree Days, Growing Degree Days, Modified Growing Degree Days, Stress Degree Days and Freezing Degree Days. ○ Customizable to include non-standard degree day bases and accumulation start dates. ○ Tabular data and data plots available |
| This Date In History | <ul style="list-style-type: none"> ○ See all data available for one day in a sortable table |
| Almanac for a Day | <ul style="list-style-type: none"> ○ Average and record highs & lows ○ Daily 1981-2010 NCDC Climate Normals |
| Threshold Search | <ul style="list-style-type: none"> ○ Find all dates above a certain temperature, precipitation or snowfall threshold. ○ Gives a chronological list of dates, monthly counts, or a runs of Days meeting the threshold |
| Ranking | <ul style="list-style-type: none"> ○ Search the ranking of temperature precipitation and snowfall data in ascending or descending order for an individual date. |
| Keetch-Byram Drought Index (KBDI) | <ul style="list-style-type: none"> ○ Get the KBDI for an individual days in a sortable table ○ Graphs also available |
| Multi-Station Data | <ul style="list-style-type: none"> ○ See data for multiple stations for a variable over a period |
| Monthly Data (Station Data → Monthly) | |
| Between Specific Months | <ul style="list-style-type: none"> ○ Get monthly station data for multiple variables in a sortable table |
| Monthly NCDC Normals | <ul style="list-style-type: none"> ○ Available in either graph or tabular form |
| Ranking | <ul style="list-style-type: none"> ○ Similar to daily Ranking ○ Allows user to determine how much missing data is permissible |
| Thermograph | <ul style="list-style-type: none"> ○ See high & low temperature compared to normal values as well as extremes |
| Seasonal Data (Station Data → Seasonal) | |
| Degree Days, Ranking & Thermograph | <ul style="list-style-type: none"> ○ These products are also under the Seasonal Category |
| Freeze Probabilities | <ul style="list-style-type: none"> ○ Probabilities of later spring freeze or earlier fall freeze at various temperatures |
| Seasonal Statistics | <ul style="list-style-type: none"> ○ Historical first and last dates of growing, snow and frost seasons in a sortable table ○ Length of each season |

| Annual Data (Station Data → Annual) | |
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| Summary By Month | ○ Monthly data sorted by year |
| Ranking | ○ Similar to monthly and daily Ranking ○ Allows user to determine how much missing data is permissible |
| Annual Data Between Specific Years | ○ Sortable table of data ○ Data plots ○ Selectable year types (calendar, water, snow) |
| County Data | |
| General Info | ○ Data from all stations in a county for one climate variable ○ Select individual station networks |
| Climate Division Data | |
| General Info | ○ Based off of the nClimDiv product from NCDC |
| Snapshot | ○ Monthly climate division data for each state for a month |
| Monthly by Year | ○ All climate division monthly data for a specific variable for the period selected. |
| Chronological Listing | ○ Gives temperature and precipitation data and departures from normal |
| Ranked Listing | ○ Similar to ranking tool for stations |
| Estimated Between Two Dates | ○ Estimates temperature, precipitation and degree days for states in the Midwest only. |
| State Data | |
| Snapshot, Monthly by Year, Chronological Listing, and Ranked Listing | ○ These products available for Climate Division data are also available for states |
| Preliminary Average Precipitation and Temperature | ○ Available for Midwest states for the previous month |
| Maps of Data | |
| MRCC Gridded Data → Specific period | ○ Similar to the maps found in weekly and monthly reports on the Midwest Climate Watch of NWS COOP data ○ Plot actual values, departure from mean and percent of mean for a period ○ Domains include RCC, RFC, NIFC & NWS regions, states, and NWS CWA's |
| MRCC Gridded Data → Long-Term Average Maps | ○ Mapped averages of precipitation, temperature and snowfall |
| Interpolated Station Data | ○ Selectable by individual station network(s) ○ Higher resolution than Specific Period Maps, but slower load times |
| Charts and Graphs | |
| General Info | ○ Convenient menu for all cli-MATE products that have charts or graphs available |

**For more information or questions about cli-MATE,
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